		DEPARTMENT	ATE OF UTAH OF NATURAL RES OF OIL, GAS AND I		5		FOR	RM 3		
APPLI	CATION FOR	PERMIT TO DRILL	-			1. WELL NAME and	I NUMBER ONANZA 1023-6K1CS	5		
2. TYPE OF WORK DRILL NEW WELL	REENTER P	&A WELL DEEPE	EN WELL			3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas We	ell Coall	bed Methane Well: NO				5. UNIT or COMMU	INITIZATION AGRE	EMENT NAME		
6. NAME OF OPERATOR KERF	R-MCGEE OIL &	GAS ONSHORE, L.P.				7. OPERATOR PHO	NE 720 929-6007			
8. ADDRESS OF OPERATOR		Denver, CO, 80217				9. OPERATOR E-M.		darko.com		
10. MINERAL LEASE NUMBER	. Box 1757757	11. MINERAL OWNE	RSHIP		_	12. SURFACE OWN				
(FEDERAL, INDIAN, OR STATE) UTU38419		FEDERAL (IND	DIAN STATE () FEE			IDIAN 📄 STATE			
13. NAME OF SURFACE OWNER (if box 12	= 'fee')					14. SURFACE OWN	IER PHONE (if box	12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box				16. SURFACE OWN	IER E-MAIL (if box	12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COM MULTIPLE FORMATI YES (Submit C			_	19. SLANT VERTICAL DI	RECTIONAL 📵 H	ORIZONTAL		
20. LOCATION OF WELL	FC	OOTAGES	QTR-QTR	SEC	TION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE	1915 F	SL 1732 FWL	NESW	6	i	10.0 S	23.0 E	S		
Top of Uppermost Producing Zone	2170 F	SL 2228 FWL	NESW	6	j	10.0 S	23.0 E	S		
At Total Depth	2170 F	SL 2228 FWL NESW		6	j	10.0 S	23.0 E	S		
21. COUNTY UINTAH		22. DISTANCE TO N	EAREST LEASE LIN 2170	IE (Feet)		23. NUMBER OF ACRES IN DRILLING UNIT 516				
		25. DISTANCE TO N (Applied For Drilling		SAME POO						
27. ELEVATION - GROUND LEVEL		28. BOND NUMBER				29. SOURCE OF DE		TE ADDITION DI E		
5221			WYB000291			WATER RIGHTS AI	PPROVAL NUMBER Permit #43-8496	IF APPLICABLE		
		A	TTACHMENTS							
VERIFY THE FOLLOWING	ARE ATTACH	HED IN ACCORDAN	CE WITH THE U	TAH OIL	. AND (GAS CONSERVAT	ION GENERAL R	ULES		
WELL PLAT OR MAP PREPARED BY	LICENSED SUI	RVEYOR OR ENGINEE	R COM	IPLETE DI	RILLING	i PLAN				
AFFIDAVIT OF STATUS OF SURFACE	OWNER AGR	EEMENT (IF FEE SURF	ACE) FORI	м 5. IF OI	PERATO	R IS OTHER THAN 1	THE LEASE OWNER			
DIRECTIONAL SURVEY PLAN (IF DI	RECTIONALLY	OR HORIZONTALLY	г торе	OGRAPHI	CAL MAI	P				
NAME Gina Becker	1	FITLE Regulatory Analys	st II		PHON	E 720 929-6086				
SIGNATURE	ı	DATE 01/04/2011			EMAIL	gina.becker@anada	rko.com			
API NUMBER ASSIGNED 43047514660000	,	APPROVAL			Sol	ocylll				
					Perr	nit Manager				

API Well No: 43047514660000 Received: 1/4/2011

	Propo	osed Hole, Casing, ar	ıd Cement			
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	8606		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	0	11.6		П	

API Well No: 43047514660000 Received: 1/4/2011

	Prop	oosed Hole, Casing, a	nd Cement		
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)	
Surf	11	8.625	0	2100	
Pipe	Grade	Length	Weight		
	Grade J-55 LT&C	0	28.0		

Bonanza 1023-6K Pad Drilling Program
1 of 4

Kerr-McGee Oil & Gas Onshore. L.P.

BONANZA 1023-6K1CS

 Surface:
 1915 FSL / 1732 FWL
 NESW
 Lot

 BHL:
 2170 FSL / 2228 FWL
 NESW
 Lot

Section 6 T10S R23E

Unitah, Utah Mineral Lease: UTU-38419

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1226	
Birds Nest	1489	Water
Mahogany	1851	Water
Wasatch	4237	Gas
Mesaverde	6394	Gas
MVU2	7328	Gas
MVL1	7902	Gas
TVD	8544	
MD	8606	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Drilling Program

6. <u>Evaluation Program</u>:

Bonanza 1023-6K Pad Drilling Program
2 of 4

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8,544' TVD, approximately equals 5,234 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,355 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Bonanza 1023-6K Pad Drilling Program 3 of 4

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

Bonanza 1023-6K Pad Drilling Program
4 of 4

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

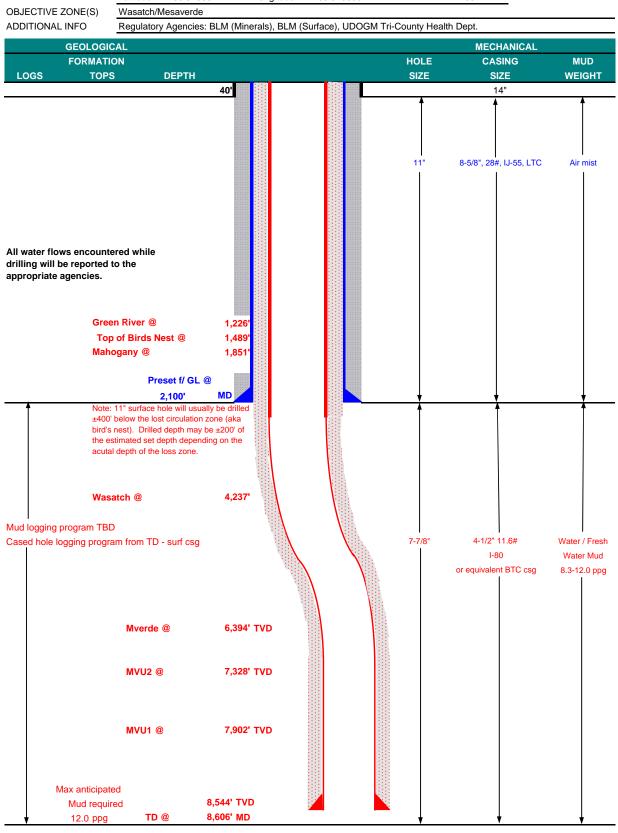
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP <u>DRILLING PROGRAM</u>

December 29, 2010 COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE **BONANZA 1023-6K1CS** WELL NAME 8,544' TVD 8,606' MD Natural Buttes FINISHED ELEVATION 5,219' FIELD **COUNTY** Uintah STATE Utah SURFACE LOCATION **NESW** 1915 FSL 1732 FWL Sec 6 T 10S R 23E Lot 3 Latitude: 39.975932 Longitude: -109.372632 **NAD 83** BTM HOLE LOCATION **NESW** 2170 FSL 2228 FWL Sec 6 T 10S R 23E Lot 4 Latitude: 39.976637 -109.370859 NAD 83 Longitude: Wasatch/Mesaverde ADDITIONAL INFO





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

									DESIGN FACT	ORS
	SIZE	INT	ERVAL	_	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	C)-40'							
								3,390	1,880	348,000
SURFACE	8-5/8"	0	to	2,100	28.00	IJ-55	LTC	0.98	1.91	5.86
								7,780	6,350	278,000
PRODUCTION	4-1/2"	0	to	8,606	11.60	I-80	BTC	2.25	1.19	3.19

^{*}Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.56

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.0 ppg) 0.22 psi/ft = gradient for partially evac wellbore (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,355 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.0 ppg) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 5,234 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to sur	face, optio	n 2 will be ເ	ıtilized	
Option 2 LEAD	1,600'	65/35 Poz + 6% Gel + 10 pps gilsonite	150	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,736'	Premium Lite II +0.25 pps	270	10%	11.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	4,870'	50/50 Poz/G + 10% salt + 2% gel	940	10%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

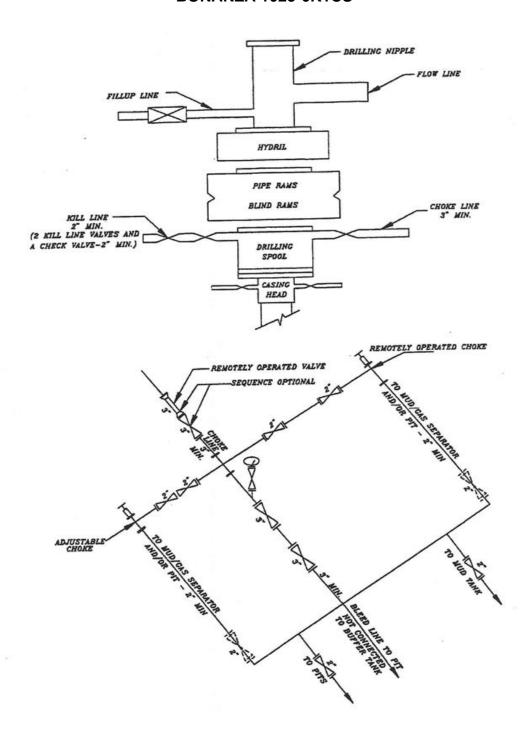
Surveys will	be taken at 1,00	0' minimum intervals.	

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

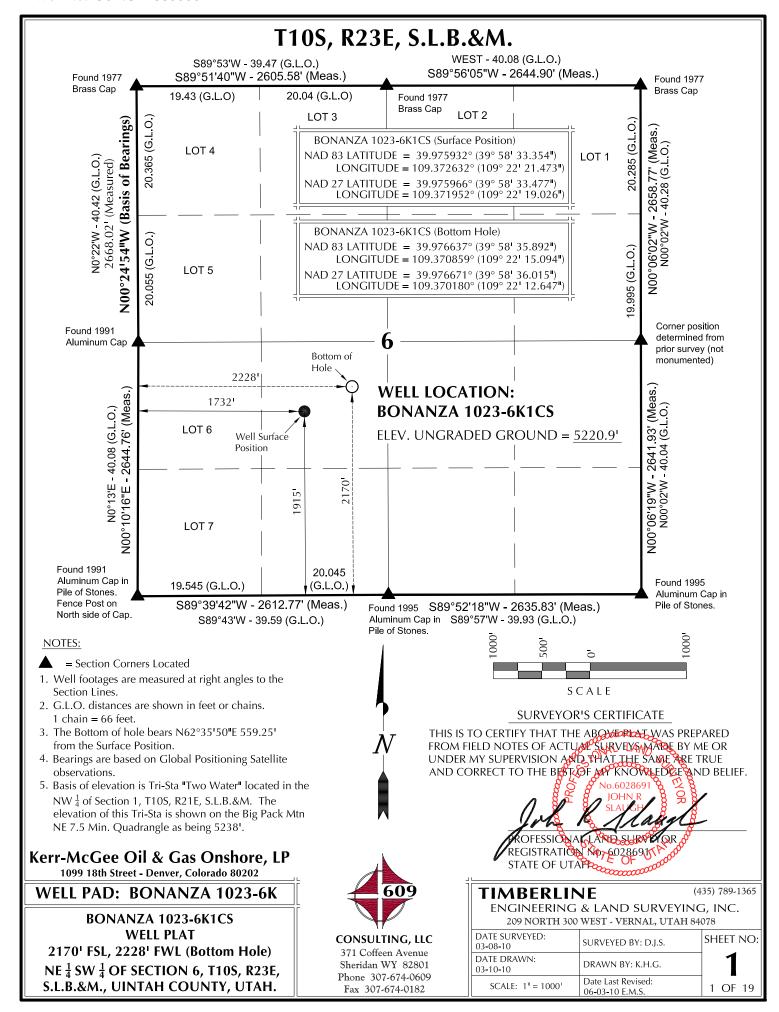
DRILLING ENGINEER:		DATE:	
	Emile Goodwin / Perry Daughtrey	•	
DRILLING SUPERINTENDENT:		DATE:	
	John Merkel / Lovel Young	•	

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A BONANZA 1023-6K1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



WELL NAME			SURFAC	CE POSITIO	N				В	OTTOM HOLE		
		AD83		NAI				NAD		NAD		
BONANZA	39°58'33.354	LONGIT 1" 109°22'21		ATITUDE °58'33.477"		FOOTAGES 1915' FSL	39°58'3		LONGITUDE 109°22'15.094"	LATITUDE 39°58'36.015"	LONGITUDE 109°22'12.647"	
1023-6K1CS	39.975932°	109.37263	32° 39.	.975966°	109.371952°	1732' FWL	39.9766	537°	109-22 15.094 109.370859°	39.976671°	109-22-12.647 109.370180°	2228¹ FWL
BONANZA	39°58'33.264 39.975907°			°58'33.387" 975941°			39°58'3 39.977		109°22'03.411"	39°58'39.852"	109°22'00.964"	
1023-6J2AS BONANZA	39.9/590/° 39°58'33.173	109.3726 ² 3" 109°22'21		.975941° °58'33.297"	109.371966° 109°22'19.130	1728' FWL " 1897' FSL	39.9/// 39°58'4		109.367614° 109°22'25.552"	39.977737° 39°58'40.125"	109.366935° 109°22'23.104"	2100' FEL 2590' FSL
1023-6K2BS	39.975882°	109.37266	51° 39.	.975916°	109.371981°	1724' FWL	39.977	778°	109.373764°	39.977813°	109.373084°	1412' FWL
BONANZA 1023-6K2CS	39°58'33.083 39.975857°			°58'33.207" .975891°			39°58'3		109°22'24.636"	39°58'35.930" 39.976647°	109°22'22.188"	
BONANZA	39.9/303/ 39°58'32.902	109.37267 2" 109°22'21		°58'33.025"	109.371995° 109°22'19.286	1720' FWL 1870' FSL	39.9760 39°58'4		109.373510° 109°22'37.203"	39°58'44.378"	109.372830° 109°22'34.754"	1485' FWL 2286' FNL
1023-6E3AS	39.975806°	109.37270)4° 39.	.975840°	109.372024°	1712' FWL	39.9789	960°	109.377001°	39.978994°	109.376321°	507' FWL
BONANZA	39°58'32.813 39.975781°	1.00 ==		°58'32.936"			39°58'3		109°22'36.738"	39°58'40.083" 39.977801°	109°22'34.289"	
1023-6L2AS BONANZA	39.9/3/61 39°58'32.723	109.37271 3" 109°22'21		.975816° °58'32.847"	109.372038° 109°22'19.392	1708' FWL 1852' FSL	39.9/// 39°58'3		109.376872° 109°22'36.558"	39°58'35.114"	109.376192° 109°22'34.110"	541' FWL 2087' FSL
1023-6L2DS	39.975757°	109.37273	33° 39.	.975791°	109.372053°	1704' FWL	39.9763		109.376822°	39.976421°	109.376142°	557' FWL
BONANZA 6-2	39°58'32.993 39.975831°	3" 109°22'21 109.37268		°58'33.116" .975866°	109°22'19.23 ² 109.372010°	1879' FSL 1716' FWL						
0-2	33.373031	109.37200			COORDINATES		e Position	to Botto	ım Hole			
WELL NAME	NORTH	EAST	WELL N				NAME	NORT		WELL NAM	IE NORTH	EAST
BONANZA	257.4	496.51	BONAN	174	55.8' 140	PON		690.8		BONANZA	275.4	-234.4
1023-6K1CS			1023-6J2	2AS		1023-	6K2BS			1023-6K2C	5 273.4	-234.4
WELL NAME BONANZA	NORTH	EAST	WELL N		ORTH EA		NAME	NORT	H EAST	_		
1023-6E3AS	1147.9'	-1205.7	BONAN 1023-6L	1 /	22.2 -116	5.1 BONA 1023	6L2DS	228.3	-1146.4			
√ N580.	13/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/	NROS ROS	6/3/3/ 1/2/6	<u>چ</u> ر	10m \ N - 13	/		. /		62.5	om Hole 25)	
Tob		Az: N78°44'0		54720	NZ = 335.82250, 26 NZ = 335.82250, 26 NZ = 3011NN - 757.26			NZA 10 ZA 10 ZA 102	023.6K1Cs 23.6124s	65°03'12"E 65°03'12"E 70 Bottor AZ 65		V
WELL P WE WELLS - BON BONANZ	Gee Oil 8th Street - D PAD - BC LL PAD INT ANZA 1023-6 A 1023-6K2B5	& Gas (Denver, Colo ERFERENC KICS, BONANZ BONANZ BONANZ BONANZ	Dnsho prado 8020 A 1023 CE PLAT ANZA 1023-6K	6472° 1168.89° 100le) -09 -09 -02 3-6K 23-6J2AS, (22CS,	108 CON	BONA BONA BONA BONA BONA BONA	BONAN BONAN DNAN NAN NAN NAN NAN NAN NAN NAN NAN	NZA 1023 2A 1023 1023.64 1024.64 1024.	1023.6K7CS 123.6K2RS A. 123.6K2RS A. 123.6K2RS A. 124S A. 10 E. 124S A. 10 E. 124S A. 10 E. 125 A. 10 E. 125 A. 10 E. 126 NORTH 3 1209 NORTH 3	Az. to Exist. W. to Exist. W.H. = 24.003 Az. to Exist. W.H. = 24.003	H. \(\alpha\) \(\delta\) \(\delta	₹0.0, 0.0, 0.0, 0, , , , ,
Kerr-Mc 1099 1 WELL F WE WELLS - BON BONANZ	Gee Oil 8th Street - D PAD - BC LL PAD INT ANZA 1023-6K2B3 A 1023-6K2B3 A 1023-6E3AS	& Gas (Denver, Colo DNANZ ERFERENC K1CS, BONANZA BONANZA BONANZA	Dnsho rado 8020 A 1023 CE PLAT ANZA 1023-6K 1023-6K	6472° 1168.89° 100le) -09 -09 -02 3-6K 23-6J2AS, (22CS,	- CON 3710	BONA BONA BONA BONA BONA BONA BONA BONA	BONAN BONAN ONAN VANZA ANZA ANZA ANZA ANZA ANZA ANZA	NZA 1023 24 1023 1023.612 1023.612 1023.612 1023.612	1023.6K7CS 123.6K2RS A. 123.6K2RS A. 123.6K2RS A. 124S A. 10 E. 124S A. 10 E. 124S A. 10 E. 125 A. 10 E. 125 A. 10 E. 126 NORTH 3 1209 NORTH 3	Az. to Exist. W. to Exist. W. H. = 24.003 INE G & LAND 100 WEST - VER SURVEYED B	H. = 204.005000° 1. = 204.005000° 204.00500° 204.00500° 10.00 0500° 10.00 0500° 20.00 SURVEYINC ENAL, UTAH 840 BY: D.J.S.	₹0.0, 0.0, 0.0, 0, , , , ,
Kerr-Mc 1099 1 WELL F WELLS - BON BONANZ BONANZ	Gee Oil 8th Street - D PAD - BC LL PAD INT ANZA 1023-6K2B3 A 1023-6K2B3 A 1023-6E3AS	& Gas (Venver, Colo NANZ ERFERENCE KICS, BONANZA A 1023-612D	Dnsho prado 8020 A 1023 CE PLAT A 1023-6L2 1023-6L2	6472° 1168.89° 100le) -09 -09 -02 3-6K 23-6J2AS, (22CS,	CON 371 (Sheri	BONA BONA BONA BONA BONA BONA	BONAN BONAN ONAN ONAN ONAN ONAN ONAN ONA	NZA 1023 24 1023 1023.612 1023.612 1023.612 1023.612	023.6K7CS 23.6K2RS A2.66K2CS A2.66K2CS A2.60 EXIS 2AS A2.60 EXIS MBERLI NGINEERIN 209 NORTH 3 SURVEYED: -10 DRAWN:	Az. to Exist. W. to Exist. W. H. 24.003 INE G & LAND	H. = 204.005000° 1. = 204.005000° 204.005000° 204.005000° 10.00 10.	₹0.0, 0.0, 0.0, 0.0,

EXISTING GRADE @ CENTER OF WELL PAD = 5221.2' FINISHED GRADE ELEVATION = 5218.6' CUT SLOPES = 1.5:1 FILL SLOPES = 1.5:1 TOTAL WELL PAD AREA = 3.84 ACRES TOTAL DAMAGE AREA = 6.18 ACRES SHRINKAGE FACTOR = 1.10 SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6K

WELL PAD - LOCATION LAYOUT BONANZA 1023-6K1CS, BONANZA 1023-6J2AS, BONANZA 1023-6K2BS, BONANZA 1023-6K2CS, BONANZA 1023-6E3AS, BONANZA 1023-6L2AS & BONANZA 1023-6L2DS LOCATED IN SECTION 6, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH



371 Coffeen Avenue

Sheridan, WY 82801 Phone 307-674-0609 Fax 307-674-0182

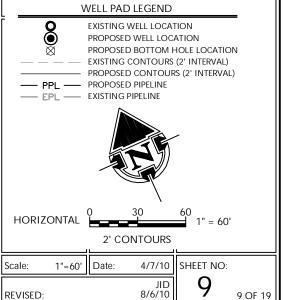
WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 20,745 C.Y. TOTAL FILL FOR WELL PAD = 18,389 C.Y. TOPSOIL @ 6" DEPTH = 2,012 C.Y. EXCESS MATERIAL = 2,356 C.Y.

RESERVE PIT QUANTITIES

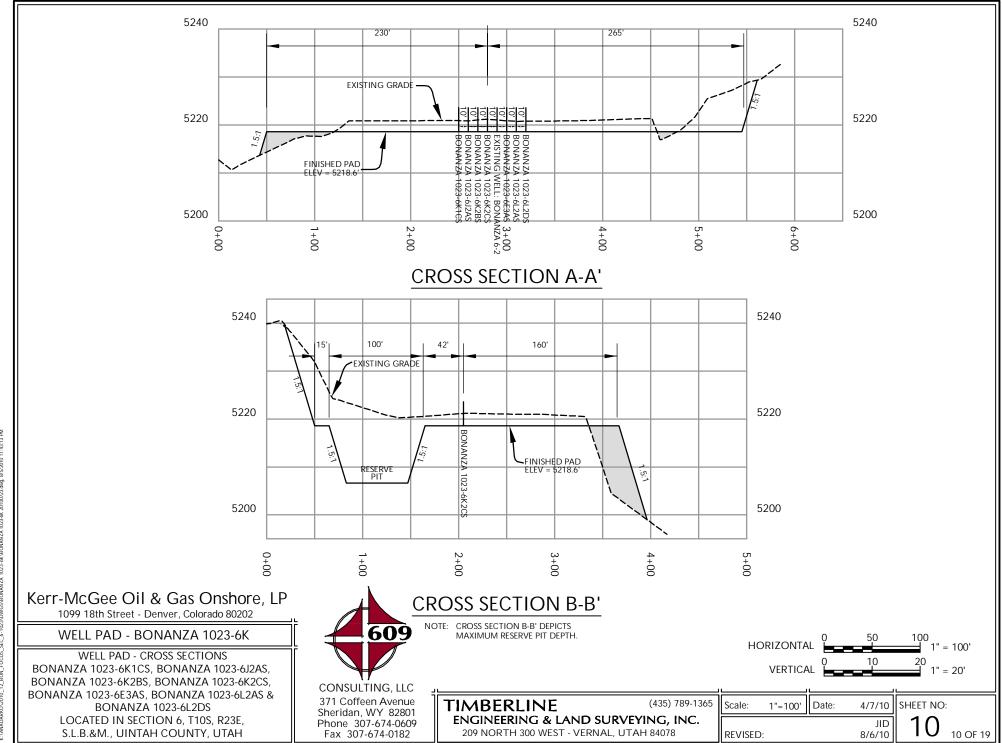
TOTAL CUT FOR RESERVE PIT +/- 6,910 CY RESERVE PIT CAPACITY (2' OF FREEBOARD) +/- 26,100 BARRELS

TIMBERLINE ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078



9 OF 19

REVISED:



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED

APIWellNo:43047514660000

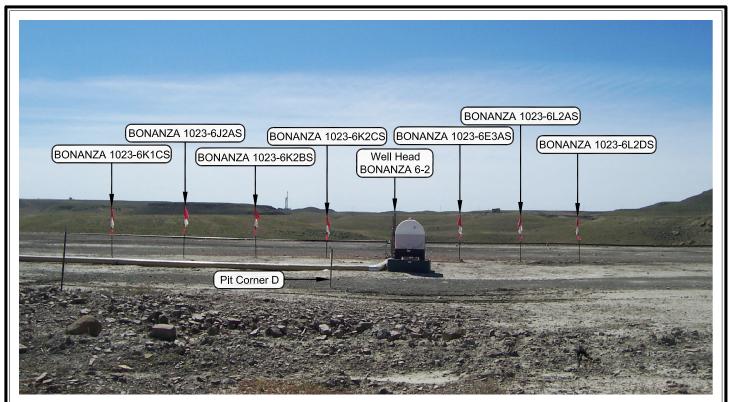


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES





PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-6K

LOCATION PHOTOS
BONANZA 1023-6K1CS, BONANZA 1023-6J2AS,
BONANZA 1023-6K2BS, BONANZA 1023-6K2CS,
BONANZA 1023-6E3AS, BONANZA 1023-6L2AS &
BONANZA 1023-6L2DS
LOCATED IN SECTION 6, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC

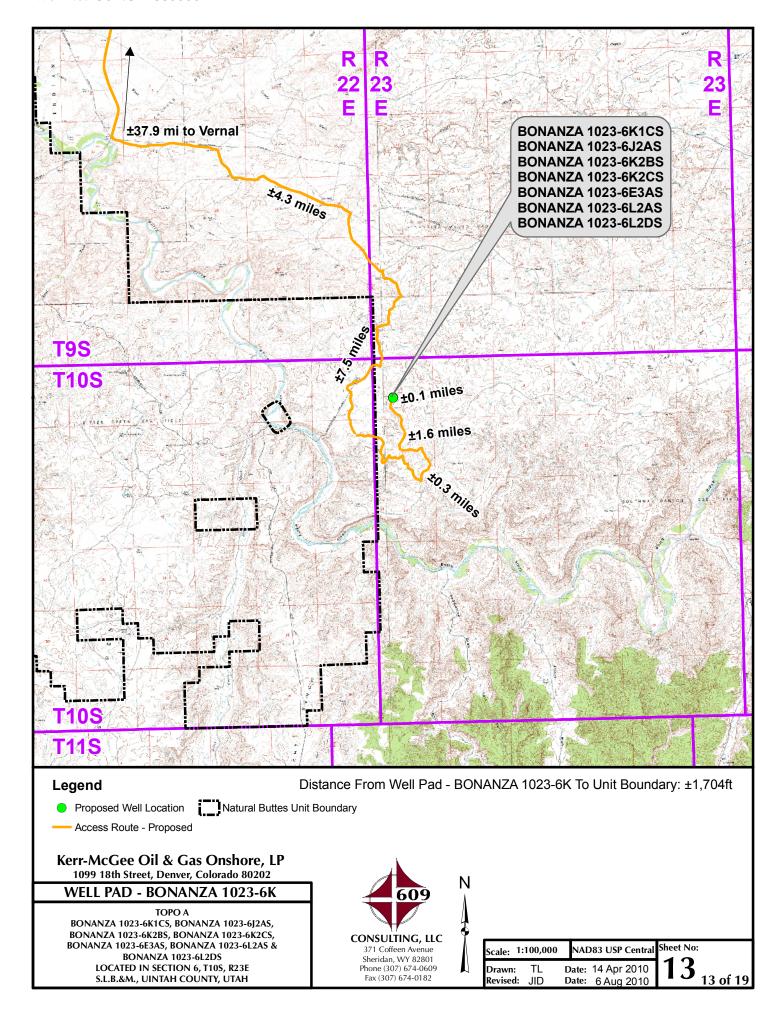
371 Coffeen Avenue Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

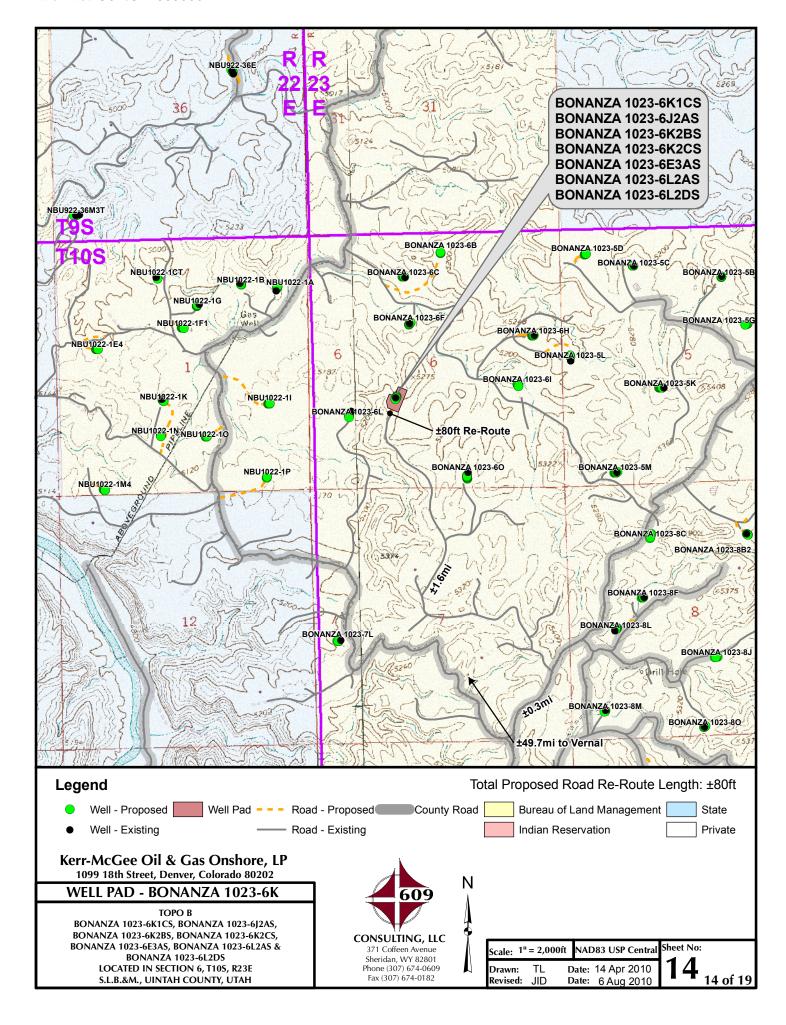
TIMBERLINE

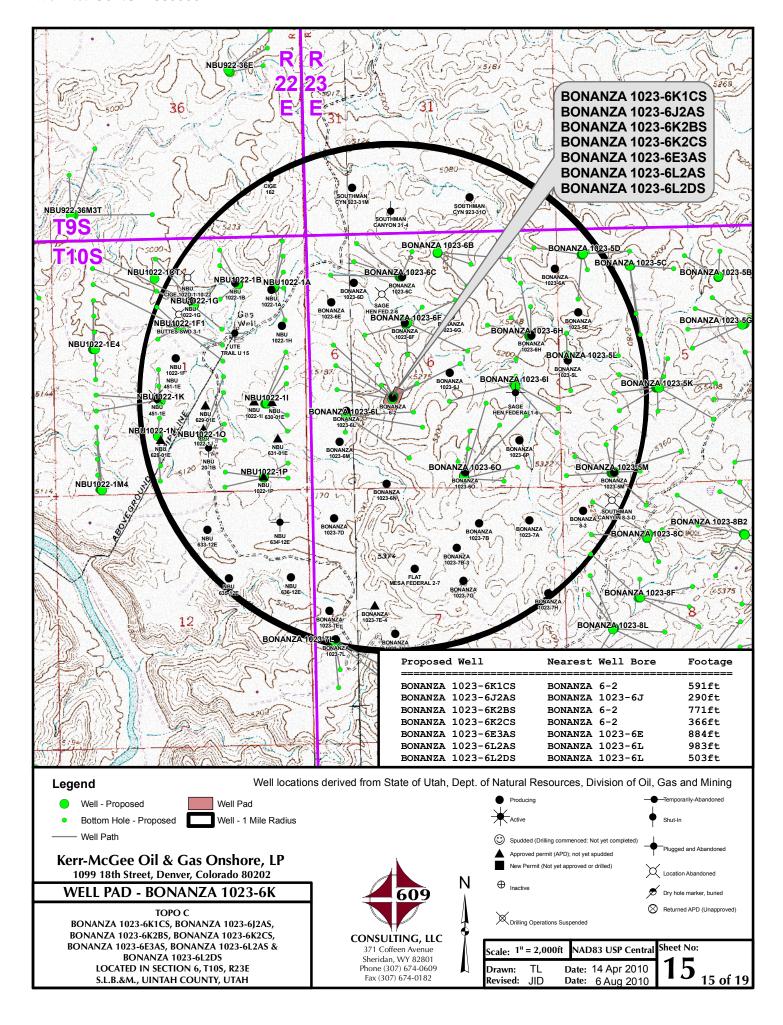
(435) 789-1365

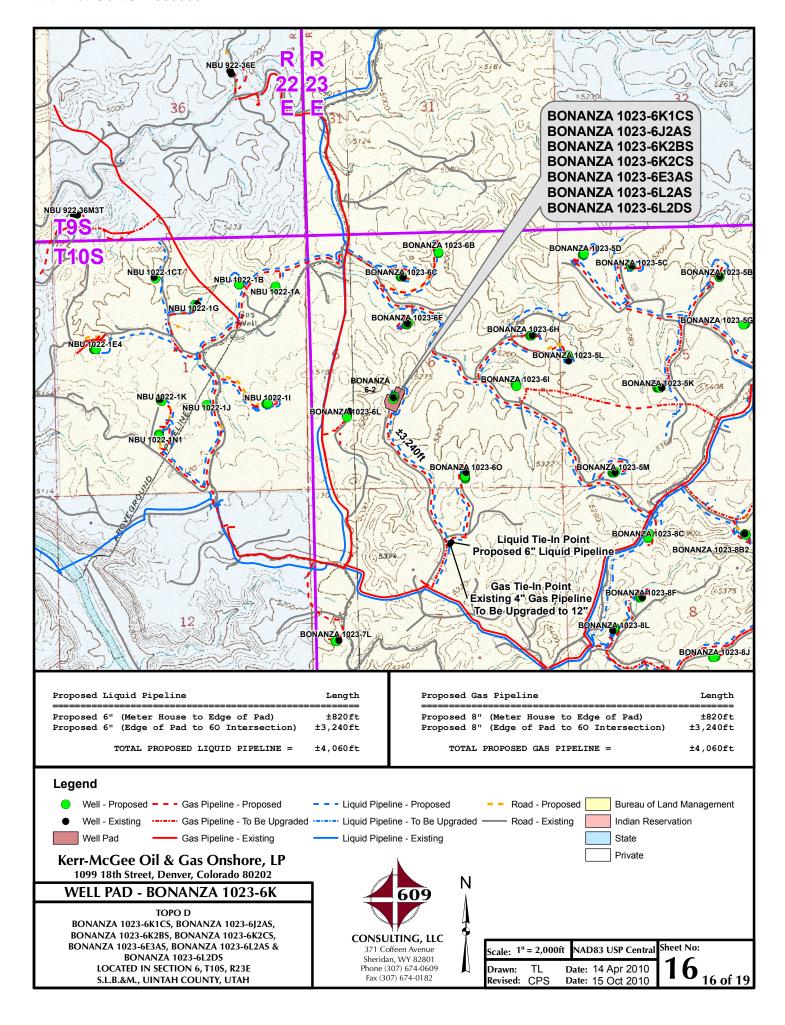
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

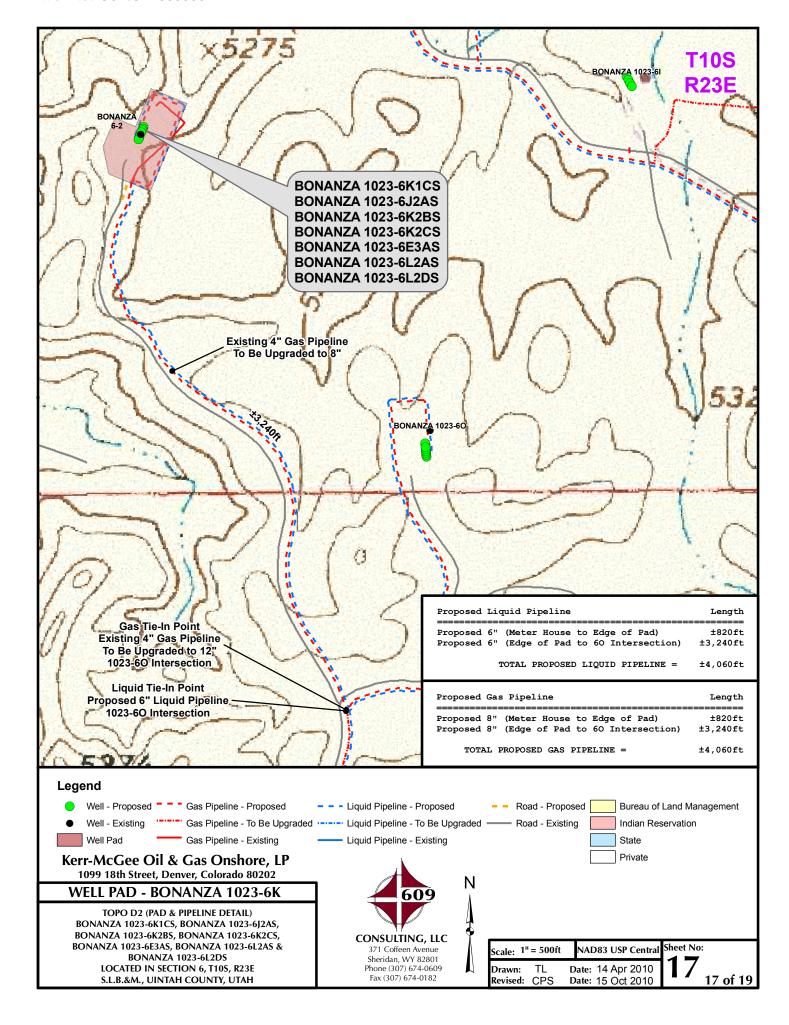
20711011111300	WEST - VERGINE, OTHER OF	010
DATE PHOTOS TAKEN: 03-08-10	PHOTOS TAKEN BY: D.J.S.	SHEET NO:
DATE DRAWN: 03-10-10	DRAWN BY: K.H.G.	12
Date Last Revised: 06-03-1	0 E.M.S.	12 OF 19

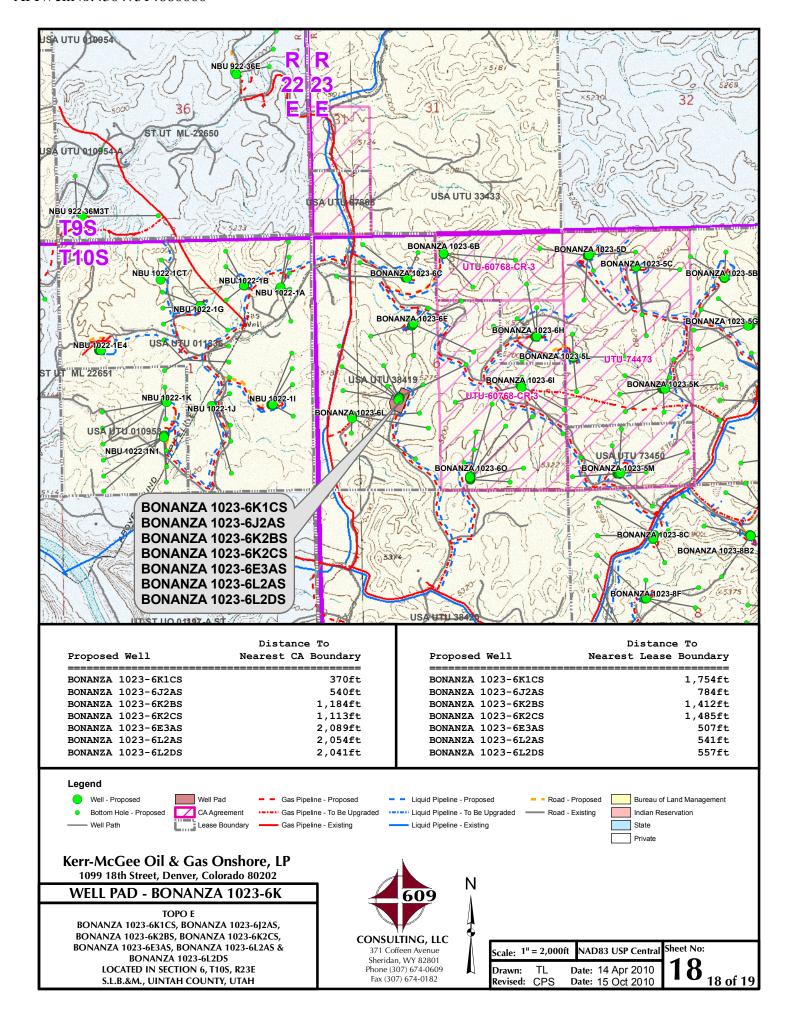












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – BONANZA 1023-6K WELLS – BONANZA 1023-6K1CS, BONANZA 1023-6J2AS, BONANZA 1023-6K2BS, BONANZA 1023-6K2CS, BONANZA 1023-6E3AS, BONANZA 1023-6L2AS & BONANZA 1023-6L2DS Section 6, T10S, R23E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Chipeta Wells Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge, at the White River. Exit left and proceed in a southeasterly direction along the Chipeta Wells Road approximately 4.3 miles to the intersection of the Atchee Wash Road (County B Road 4240). Exit right and proceed in a southeasterly, then southerly direction along the Atchee Wash Road approximately 7.5 miles to the intersection of the County B Road 3420. Exit left and proceed in a northeasterly direction along the County B Road 3420 approximately 0.3 miles to a service road to the left. Exit left and proceed along said service road approximately 1.6 miles to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 51.6 miles in a southerly direction.



9000

-750

750

1500

Vertical Section at 62.66° (1500 ft/in)

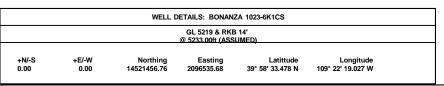
2250

3000

Project: Uintah County, UT UTM12 Site: Bonanza 1023-6K Pad Well: BONANZA 1023-6K1CS

Wellbore: OH Design: PLAN #1





DESIGN TARGET DETAILS

TO +N/-S +E/-W Northing Easting Latitude Longitude Shape

+L 8544.00 256.78 496.55 14521722.56 2097027.46 39° 58' 36.016 N 109° 22' 12.648 W Circle (Radius: 25.01

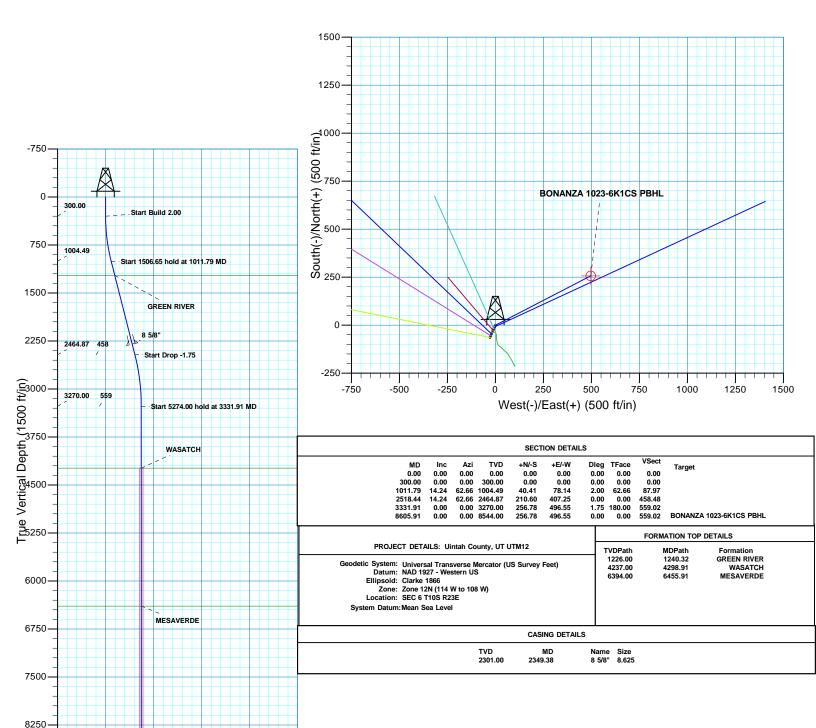
- plan hits target center

Magnetic North: 11.11°

Magnetic Field
Strength: 52406.0snT
Dip Angle: 65.89°
Date: 09/16/2010
Model: IGRF2010

Plan: PLAN #1 (BONANZA 1023-6K1CS/OH)

Created By: RobertScott Date: 17:37, September 16 2010





Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12 Bonanza 1023-6K Pad BONANZA 1023-6K1CS

ОН

Plan: PLAN #1

Standard Planning Report

16 September, 2010





Project:

SDI Planning Report



EDM5000-RobertS-Local Database:

Company: Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

Bonanza 1023-6K Pad Site: Well: BONANZA 1023-6K1CS

Wellbore: ОН Design: PLAN #1 **Local Co-ordinate Reference:**

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well BONANZA 1023-6K1CS

GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED)

62.66

GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)

Minimum Curvature

Project Uintah County, UT UTM12

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 - Western US Geo Datum: Zone 12N (114 W to 108 W) Map Zone:

System Datum: Mean Sea Level

0.00

Bonanza 1023-6K Pad, SEC 6 T10S R23E Site

Northing: 14,521,392.52 usft 39° 58' 32.848 N Site Position: Latitude: From: Lat/Long Easting: 2,096,508.54 usft Longitude: 109° 22' 19.391 W **Position Uncertainty:** 0.00 ft Slot Radius: 13.200 in **Grid Convergence:** 1.05°

Well BONANZA 1023-6K1CS, 1915' FSL 1728' FWL

0.00

Well Position +N/-S 63.74 ft 14,521,456.77 usft Latitude: 39° 58' 33.478 N Northing:

+E/-W 28.30 ft Easting: 2,096,535.68 usft Longitude: 109° 22' 19.027 W

Position Uncertainty 0.00 ft Wellhead Elevation: **Ground Level:** 5.219.00 ft

ОН Wellbore Declination Dip Angle Field Strength Magnetics **Model Name** Sample Date (°) (°) (nT) IGRF2010 09/16/2010 11.11 65.89 52,406

PLAN #1 Design **Audit Notes:** PLAN 0.00 Version: Phase: Tie On Depth: +N/-S Vertical Section: Depth From (TVD) +E/-W Direction (ft) (ft) (ft) (°)

0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,011.79	14.24	62.66	1,004.49	40.41	78.14	2.00	2.00	0.00	62.66	
2,518.44	14.24	62.66	2,464.87	210.60	407.25	0.00	0.00	0.00	0.00	
3,331.91	0.00	0.00	3,270.00	256.78	496.55	1.75	-1.75	0.00	180.00	
8,605.91	0.00	0.00	8,544.00	256.78	496.55	0.00	0.00	0.00	0.00	BONANZA 1023-6K1



SDI Planning Report



Database: EDM5000-RobertS-Local

Company: Kerr McGee Oil and Gas Onshore LP

Project: Uintah County, UT UTM12

Site: Bonanza 1023-6K Pad
Well: BONANZA 1023-6K1CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Survey Calculation Method:

North Reference:

Well BONANZA 1023-6K1CS

GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED) GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)

True

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00 100.00	0.00 0.00	0.00 0.00	0.00 100.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
200.00 300.00	0.00 0.00	0.00 0.00	200.00 300.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
Start Build		0.00	000.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	62.66	399.98	0.80	1.55	1.75	2.00	2.00	0.00
500.00	4.00	62.66	499.84	3.21	6.20	6.98	2.00	2.00	0.00
600.00	6.00	62.66	599.45	7.21	13.94	15.69	2.00	2.00	0.00
700.00	8.00	62.66	698.70	12.81	24.76	27.88	2.00	2.00	0.00
800.00	10.00	62.66	797.47	19.99	38.66	43.52	2.00	2.00	0.00
900.00	12.00	62.66	895.62	28.76	55.61	62.60	2.00	2.00	0.00
1,000.00	14.00	62.66	993.06	39.09	75.59	85.10	2.00	2.00	0.00
1,011.79	14.24	62.66	1,004.49	40.41	78.14	87.97	2.00	2.00	0.00
	35 hold at 1011.79		4 000 00	F0.07	07.44	400.00	0.00	0.00	0.00
1,100.00	14.24	62.66	1,089.99	50.37	97.41	109.66	0.00	0.00	0.00
1,200.00	14.24	62.66	1,186.92	61.67	119.25	134.26	0.00	0.00	0.00
1,240.32 GREEN RIV	14.24	62.66	1,226.00	66.22	128.06	144.17	0.00	0.00	0.00
1,300.00	14.24	62.66	1,283.85	72.97	141.10	158.85	0.00	0.00	0.00
1,400.00	14.24	62.66	1,380.78	84.26	162.94	183.44	0.00	0.00	0.00
1,500.00	14.24	62.66	1,477.71	95.56	184.78	208.03	0.00	0.00	0.00
1,600.00	14.24	62.66	1,574.64	106.85	206.63	232.62	0.00	0.00	0.00
1,700.00	14.24	62.66	1,671.57	118.15	228.47	257.21	0.00	0.00	0.00
1,800.00	14.24	62.66	1,768.49	129.44	250.31	281.80	0.00	0.00	0.00
1,900.00	14.24	62.66	1,865.42	140.74	272.16	306.39	0.00	0.00	0.00
2,000.00	14.24	62.66	1,962.35	152.04	294.00	330.99	0.00	0.00	0.00
2,100.00	14.24	62.66	2,059.28	163.33	315.85	355.58	0.00	0.00	0.00
2,200.00	14.24	62.66	2,156.21	174.63	337.69	380.17	0.00	0.00	0.00
2,300.00	14.24	62.66	2,253.14	185.92	359.53	404.76	0.00	0.00	0.00
2,349.38	14.24	62.66	2,301.00	191.50	370.32	416.90	0.00	0.00	0.00
8 5/8"	44.04	62.66	0.050.07	407.00	204.20	400.05	0.00	0.00	0.00
2,400.00 2,500.00	14.24 14.24	62.66	2,350.07 2,447.00	197.22 208.51	381.38 403.22	429.35 453.94	0.00 0.00	0.00 0.00	0.00 0.00
2,518.44	14.24	62.66	2,447.00 2,464.87	210.60	403.22	453.94 458.48	0.00	0.00	0.00
Start Drop		02.00	۷,۳۵۳.۵۱	210.00	- 01.23	-JUTU	0.00	0.00	0.00
•		62.66	2 544 17	210.26	424.10	477.55	1 75	1 75	0.00
2,600.00 2,700.00	12.81 11.06	62.66 62.66	2,544.17 2,642.00	219.36 228.86	424.19 442.55	477.55 498.22	1.75 1.75	-1.75 -1.75	0.00
2,800.00	9.31	62.66	2,740.43	236.98	442.55 458.26	515.90	1.75	-1.75 -1.75	0.00
2,900.00	7.56	62.66	2,839.34	243.71	471.28	530.57	1.75	-1.75 -1.75	0.00
3,000.00	5.81	62.66	2,938.66	249.06	481.62	542.21	1.75	-1.75	0.00
3,100.00	4.06	62.66	3,038.28	253.01	489.26	550.81	1.75	-1.75	0.00
3,200.00	2.31	62.66	3,138.12	255.56	494.19	556.36	1.75	-1.75	0.00
3,300.00	0.56	62.66	3,238.09	256.71	496.41	558.86	1.75	-1.75	0.00
3,331.91	0.00	0.00	3,270.00	256.78	496.55	559.02	1.75	-1.75	-196.34
Start 5274.0	00 hold at 3331.91								
3,400.00	0.00	0.00	3,338.09	256.78	496.55	559.02	0.00	0.00	0.00
3,500.00	0.00	0.00	3,438.09	256.78	496.55	559.02	0.00	0.00	0.00
3,600.00	0.00	0.00	3,538.09	256.78	496.55	559.02	0.00	0.00	0.00
3,700.00	0.00	0.00	3,638.09	256.78	496.55	559.02	0.00	0.00	0.00
3,800.00	0.00	0.00	3,738.09	256.78	496.55	559.02	0.00	0.00	0.00
3,900.00	0.00	0.00	3,838.09	256.78	496.55	559.02	0.00	0.00	0.00



SDI Planning Report



Database: EDM5000-RobertS-Local

Company: Kerr McGee Oil and Gas Onshore LP

Project: Uintah County, UT UTM12

Site: Bonanza 1023-6K Pad
Well: BONANZA 1023-6K1CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well BONANZA 1023-6K1CS

GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED) GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED) True

anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,000.00	0.00	0.00	3,938.09	256.78	496.55	559.02	0.00	0.00	0.00
4,100.00	0.00	0.00	4,038.09	256.78	496.55	559.02	0.00	0.00	0.00
4,200.00	0.00	0.00	4,138.09	256.78	496.55	559.02	0.00	0.00	0.00
4,298.91	0.00	0.00	4,237.00	256.78	496.55	559.02	0.00	0.00	0.00
WASATCH									
4,300.00	0.00	0.00	4,238.09	256.78	496.55	559.02	0.00	0.00	0.00
4,400.00	0.00	0.00	4,338.09	256.78	496.55	559.02	0.00	0.00	0.00
4,500.00	0.00	0.00	4,438.09	256.78	496.55	559.02	0.00	0.00	0.00
4,600.00	0.00	0.00	4,538.09	256.78	496.55	559.02	0.00	0.00	0.00
4,700.00	0.00	0.00	4,638.09	256.78	496.55	559.02	0.00	0.00	0.00
4,800.00	0.00	0.00	4,738.09	256.78	496.55	559.02	0.00	0.00	0.00
4,000.00									
4,900.00	0.00	0.00	4,838.09	256.78	496.55	559.02	0.00	0.00	0.00
5,000.00	0.00	0.00	4,938.09	256.78	496.55	559.02	0.00	0.00	0.00
5,100.00	0.00	0.00	5,038.09	256.78	496.55	559.02	0.00	0.00	0.00
5,200.00	0.00	0.00	5,138.09	256.78	496.55	559.02	0.00	0.00	0.00
5,300.00	0.00	0.00	5,238.09	256.78	496.55	559.02	0.00	0.00	0.00
5,400.00	0.00	0.00	5.338.09	256.78	496.55	559.02	0.00	0.00	0.00
5,500.00	0.00	0.00	5,438.09	256.78	496.55	559.02	0.00	0.00	0.00
			5,436.09 5,538.09		496.55 496.55	559.02 559.02		0.00	
5,600.00	0.00	0.00		256.78			0.00		0.00
5,700.00	0.00	0.00	5,638.09	256.78	496.55	559.02	0.00	0.00	0.00
5,800.00	0.00	0.00	5,738.09	256.78	496.55	559.02	0.00	0.00	0.00
5,900.00	0.00	0.00	5,838.09	256.78	496.55	559.02	0.00	0.00	0.00
6,000.00	0.00	0.00	5,938.09	256.78	496.55	559.02	0.00	0.00	0.00
6,100.00	0.00	0.00	6,038.09	256.78	496.55	559.02	0.00	0.00	0.00
6,200.00	0.00	0.00	6,138.09	256.78	496.55	559.02	0.00	0.00	0.00
6,300.00	0.00	0.00	6,238.09	256.78	496.55	559.02	0.00	0.00	0.00
6,400.00	0.00	0.00	6,338.09	256.78	496.55	559.02	0.00	0.00	0.00
6,455.91	0.00	0.00	6,394.00	256.78	496.55	559.02	0.00	0.00	0.00
MESAVERD									
6,500.00	0.00	0.00	6,438.09	256.78	496.55	559.02	0.00	0.00	0.00
6,600.00	0.00	0.00	6,538.09	256.78	496.55	559.02	0.00	0.00	0.00
6,700.00	0.00	0.00	6,638.09	256.78	496.55	559.02	0.00	0.00	0.00
6,800.00	0.00	0.00	6,738.09	256.78	496.55	559.02	0.00	0.00	0.00
6,900.00	0.00	0.00	6,838.09	256.78	496.55 496.55	559.02 559.02	0.00	0.00	0.00
	0.00		,				0.00	0.00	0.00
7,000.00		0.00	6,938.09	256.78 256.78	496.55 496.55	559.02 559.02			
7,100.00 7,200.00	0.00 0.00	0.00	7,038.09 7,138.09	256.78 256.78	496.55 496.55	559.02 559.02	0.00 0.00	0.00 0.00	0.00 0.00
ı,∠00.00	0.00	0.00	1,130.09	200.70	490.33	009.0Z	0.00	0.00	0.00
7,300.00	0.00	0.00	7,238.09	256.78	496.55	559.02	0.00	0.00	0.00
7,400.00	0.00	0.00	7,338.09	256.78	496.55	559.02	0.00	0.00	0.00
7,500.00	0.00	0.00	7,438.09	256.78	496.55	559.02	0.00	0.00	0.00
7,600.00	0.00	0.00	7,538.09	256.78	496.55	559.02	0.00	0.00	0.00
7,700.00	0.00	0.00	7,638.09	256.78	496.55	559.02	0.00	0.00	0.00
7,800.00	0.00	0.00	7,738.09	256.78	496.55	559.02	0.00	0.00	0.00
7,900.00	0.00	0.00	7,738.09 7,838.09	256.76 256.78	496.55 496.55	559.02 559.02	0.00	0.00	0.00
8,000.00	0.00	0.00	7,036.09 7,938.09	256.78	496.55 496.55	559.02 559.02	0.00	0.00	0.00
			7,938.09 8,038.09						
8,100.00	0.00	0.00		256.78	496.55	559.02 550.03	0.00	0.00	0.00
8,200.00	0.00	0.00	8,138.09	256.78	496.55	559.02	0.00	0.00	0.00
8,300.00	0.00	0.00	8,238.09	256.78	496.55	559.02	0.00	0.00	0.00
8,400.00	0.00	0.00	8,338.09	256.78	496.55	559.02	0.00	0.00	0.00
8,500.00	0.00	0.00	8,438.09	256.78	496.55	559.02	0.00	0.00	0.00
8,600.00	0.00	0.00	8,538.09	256.78	496.55	559.02	0.00	0.00	0.00
8,605.91	0.00	0.00	8,544.00	256.78	496.55	559.02	0.00	0.00	0.00



SDI Planning Report



EDM5000-RobertS-Local Database:

Kerr McGee Oil and Gas Onshore LP

Project: Uintah County, UT UTM12

Site: Bonanza 1023-6K Pad Well: BONANZA 1023-6K1CS

Wellbore: ОН Design: PLAN #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well BONANZA 1023-6K1CS

GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED) GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED)

True

Minimum Curvature

Planned Survey

Company:

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)

BONANZA 1023-6K1CS PBHL

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BONANZA 1023-6K1CS - plan hits target cen		0.00	8,544.00	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W

- Circle (radius 25.00)

Casing Points					
	Measured	Vertical		Casing	Hole
	Depth	Depth		Diameter	Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,349.38	2,301.00 8 5	•	8.625	11.000

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,240.32 4,298.91 6,455.91	4,237.00	GREEN RIVER WASATCH MESAVERDE				

Plan Annotations				
Measured	Vertical	Local Coord	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,011.79	1,004.49	40.41	78.14	Start 1506.65 hold at 1011.79 MD
2,518.44	2,464.87	210.60	407.25	Start Drop -1.75
3,331.91	3,270.00	256.78	496.55	Start 5274.00 hold at 3331.91 MD
8,605.91	8,544.00	256.78	496.55	TD at 8605.91



Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12 Bonanza 1023-6K Pad BONANZA 1023-6K1CS

OH

Plan: PLAN #1

Standard Planning Report - Geographic

16 September, 2010





Project:

Site

SDIPlanning Report - Geographic



Database: EDM5000-RobertS-Local

Company: Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

Site: Bonanza 1023-6K Pad
Well: BONANZA 1023-6K1CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well BONANZA 1023-6K1CS

GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED) GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED)

True

Minimum Curvature

Project Uintah County, UT UTM12

Map System: Universal Transverse Mercator (US Survey Feet)

 Geo Datum:
 NAD 1927 - Western US

 Map Zone:
 Zone 12N (114 W to 108 W)

System Datum: Mean Sea Level

Bonanza 1023-6K Pad, SEC 6 T10S R23E

Northing: 14,521,392.52 usft Site Position: Latitude: 39° 58' 32.848 N 109° 22' 19.391 W Lat/Long 2,096,508.54 usft Easting: Longitude: From: 1.05 ° 0.00 ft Slot Radius: 13.200 in **Position Uncertainty: Grid Convergence:**

BONANZA 1023-6K1CS, 1915' FSL 1728' FWL Well **Well Position** 39° 58' 33.478 N +N/-S 0.00 ft Northing: 14,521,456.77 usft Latitude: +E/-W 0.00 ft 2,096,535.68 usft Longitude: 109° 22' 19.027 W Easting: 0.00 ft 5,219.00 ft **Position Uncertainty** Wellhead Elevation: **Ground Level:**

 Wellbore
 OH

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2010
 09/16/2010
 11.11
 65.89
 52,406

PLAN #1 Design **Audit Notes:** PLAN 0.00 Version: Phase: Tie On Depth: +N/-S Vertical Section: Depth From (TVD) +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 62.66

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,011.79	14.24	62.66	1,004.49	40.41	78.14	2.00	2.00	0.00	62.66	
2,518.44	14.24	62.66	2,464.87	210.60	407.25	0.00	0.00	0.00	0.00	
3,331.91	0.00	0.00	3,270.00	256.78	496.55	1.75	-1.75	0.00	180.00	
8,605.91	0.00	0.00	8,544.00	256.78	496.55	0.00	0.00	0.00	0.00	BONANZA 1023-6K1



Company:

SDIPlanning Report - Geographic



Database: EDM5000-RobertS-Local

Kerr McGee Oil and Gas Onshore LP

Project: Uintah County, UT UTM12

Site: Bonanza 1023-6K Pad
Well: BONANZA 1023-6K1CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well BONANZA 1023-6K1CS

GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED) GL 5219 & RKB 14' @ 5233.00ft (ASSUMED)

True

Planned Survey									
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,521,456.77	2,096,535.68	39° 58' 33.478 N	109° 22' 19.027 W
100.00	0.00	0.00	100.00	0.00	0.00	14,521,456.77	2,096,535.68	39° 58' 33.478 N	109° 22' 19.027 W
200.00 300.00	0.00	0.00 0.00	200.00 300.00	0.00 0.00	0.00 0.00	14,521,456.77	2,096,535.68 2,096,535.68	39° 58' 33.478 N 39° 58' 33.478 N	109° 22' 19.027 W 109° 22' 19.027 W
Start Bui		0.00	300.00	0.00	0.00	14,521,456.77	2,090,555.06	39 30 33.476 N	109 22 19.027 W
400.00	2.00	62.66	399.98	0.80	1.55	14,521,457.60	2,096,537.21	39° 58' 33.486 N	109° 22' 19.007 W
500.00	4.00	62.66	499.84	3.21	6.20	14,521,460.09	2,096,541.82	39° 58' 33.509 N	109° 22' 18.948 W
600.00	6.00	62.66	599.45	7.21	13.94	14,521,464.23	2,096,549.48	39° 58' 33.549 N	109° 22' 18.848 W
700.00	8.00	62.66	698.70	12.81	24.76	14,521,470.02	2,096,560.20	39° 58' 33.604 N	109° 22' 18.709 W
800.00	10.00	62.66	797.47	19.99	38.66	14,521,477.46	2,096,573.96	39° 58' 33.675 N	109° 22' 18.531 W
900.00	12.00	62.66	895.62	28.76	55.61	14,521,486.53	2,096,590.75	39° 58' 33.762 N	109° 22' 18.313 W
1,000.00	14.00	62.66	993.06	39.09	75.59	14,521,497.23	2,096,610.54	39° 58' 33.864 N	109° 22' 18.056 W
1,011.79	14.24	62.66	1,004.49	40.41	78.14	14,521,498.60	2,096,613.07	39° 58' 33.877 N	109° 22' 18.023 W
1,100.00	14.24 16.65 hold	62.66	1,089.99	50.37	97.41	14,521,508.91	2,096,632.15	39° 58' 33.975 N	109° 22' 17.776 W
1,200.00	14.24	62.66	1,186.92	61.67	119.25	14,521,520.60	2,096,653.78	39° 58' 34.087 N	109° 22' 17.495 W
1,240.32	14.24	62.66	1,226.00	66.22	128.06	14,521,525.32	2,096,662.51	39° 58' 34.132 N	109° 22' 17.382 W
GREEN I									
1,300.00	14.24	62.66	1,283.85	72.97	141.10	14,521,532.30	2,096,675.42	39° 58' 34.199 N	109° 22' 17.215 W
1,400.00	14.24	62.66	1,380.78	84.26	162.94	14,521,543.99	2,096,697.05	39° 58' 34.310 N	109° 22' 16.934 W
1,500.00	14.24	62.66	1,477.71	95.56	184.78	14,521,555.68	2,096,718.68	39° 58' 34.422 N	109° 22' 16.653 W
1,600.00	14.24	62.66	1,574.64	106.85	206.63	14,521,567.37	2,096,740.32	39° 58' 34.534 N	109° 22' 16.373 W
1,700.00	14.24	62.66	1,671.57	118.15	228.47	14,521,579.07	2,096,761.95	39° 58' 34.645 N	109° 22' 16.092 W
1,800.00	14.24	62.66	1,768.49	129.44	250.31	14,521,590.76	2,096,783.59	39° 58' 34.757 N	109° 22' 15.811 W
1,900.00 2,000.00	14.24 14.24	62.66 62.66	1,865.42 1,962.35	140.74 152.04	272.16 294.00	14,521,602.45 14,521,614.15	2,096,805.22 2,096,826.85	39° 58' 34.869 N 39° 58' 34.980 N	109° 22' 15.531 W 109° 22' 15.250 W
2,100.00	14.24	62.66	2,059.28	163.33	315.85	14,521,625.84	2,096,848.49	39° 58' 35.092 N	109° 22' 14.970 W
2,200.00	14.24	62.66	2,156.21	174.63	337.69	14,521,637.53	2,096,870.12	39° 58' 35.204 N	109° 22' 14.689 W
2,300.00	14.24	62.66	2,253.14	185.92	359.53	14,521,649.22	2,096,891.75	39° 58' 35.315 N	109° 22' 14.408 W
2,349.38	14.24	62.66	2,301.00	191.50	370.32	14,521,655.00	2,096,902.43	39° 58' 35.370 N	109° 22' 14.270 W
8 5/8"									
2,400.00	14.24	62.66	2,350.07	197.22	381.38	14,521,660.92	2,096,913.39	39° 58' 35.427 N	109° 22' 14.128 W
2,500.00	14.24	62.66	2,447.00	208.51	403.22	14,521,672.61	2,096,935.02	39° 58' 35.539 N	109° 22' 13.847 W
2,518.44	14.24	62.66	2,464.87	210.60	407.25	14,521,674.76	2,096,939.01	39° 58' 35.559 N	109° 22' 13.795 W
2,600.00	12.81	62.66	2,544.17	219.36	424.19	14,521,683.83	2,096,955.79	39° 58' 35.646 N	109° 22' 13.578 W
2,700.00	11.06	62.66	2,642.00	228.86	442.55	14,521,693.66	2,096,973.98	39° 58' 35.740 N	109° 22' 13.342 W
2,800.00	9.31	62.66	2,740.43	236.98	458.26	14,521,702.07	2,096,989.53	39° 58' 35.820 N	109° 22' 13.140 W
2,900.00	7.56	62.66	2,839.34	243.71	471.28	14,521,709.04	2,097,002.43	39° 58' 35.886 N	109° 22' 12.973 W
3,000.00	5.81	62.66	2,938.66	249.06	481.62	14,521,714.58	2,097,012.67	39° 58' 35.939 N	109° 22' 12.840 W
3,100.00	4.06	62.66	3,038.28	253.01	489.26	14,521,718.67	2,097,020.23	39° 58' 35.978 N	109° 22' 12.742 W
3,200.00	2.31	62.66	3,138.12	255.56	494.19	14,521,721.31	2,097,025.12	39° 58' 36.004 N	109° 22' 12.678 W
3,300.00	0.56	62.66	3,238.09	256.71	496.41	14,521,722.50	2,097,027.32	39° 58' 36.015 N	109° 22' 12.650 W
3,331.91	0.00	0.00	3,270.00	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
3,400.00	'4.00 hold at 3 0.00	0.00	3,338.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
3,500.00	0.00	0.00	3,438.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
3,600.00	0.00	0.00	3,538.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
3,700.00	0.00	0.00	3,638.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
3,800.00	0.00	0.00	3,738.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
3,900.00	0.00	0.00	3,838.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
4,000.00	0.00	0.00	3,938.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W



Company:

SDIPlanning Report - Geographic



Database: EDM5000-RobertS-Local

Kerr McGee Oil and Gas Onshore LP

Project: Uintah County, UT UTM12

Site: Bonanza 1023-6K Pad
Well: BONANZA 1023-6K1CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:
North Reference:

Survey Calculation Method:

Well BONANZA 1023-6K1CS

GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED) GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED) True

Planned Survey									
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
4,100.00	0.00	0.00	4,038.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
4,200.00	0.00	0.00	4,138.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
4,298.91	0.00	0.00	4,237.00	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
WASATO									
4,300.00	0.00	0.00	4,238.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
4,400.00	0.00	0.00	4,338.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
4,500.00	0.00	0.00	4,438.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
4,600.00 4,700.00	0.00	0.00 0.00	4,538.09 4,638.09	256.78 256.78	496.55 496.55	14,521,722.57 14,521,722.57	2,097,027.46 2,097,027.46	39° 58' 36.016 N 39° 58' 36.016 N	109° 22' 12.648 W 109° 22' 12.648 W
4,800.00	0.00	0.00	4,038.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
4,900.00	0.00	0.00	4,838.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
5,000.00	0.00	0.00	4,938.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
5,100.00	0.00	0.00	5,038.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
5,200.00	0.00	0.00	5,138.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
5,300.00	0.00	0.00	5,238.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
5,400.00	0.00	0.00	5,338.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
5,500.00	0.00	0.00	5,438.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
5,600.00	0.00	0.00	5,538.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
5,700.00	0.00	0.00	5,638.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
5,800.00	0.00	0.00	5,738.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
5,900.00	0.00	0.00	5,838.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
6,000.00	0.00	0.00	5,938.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
6,100.00	0.00	0.00	6,038.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
6,200.00	0.00	0.00	6,138.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
6,300.00	0.00	0.00	6,238.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
6,400.00 6,455.91	0.00 0.00	0.00 0.00	6,338.09 6,394.00	256.78 256.78	496.55 496.55	14,521,722.57 14,521,722.57	2,097,027.46 2,097,027.46	39° 58' 36.016 N 39° 58' 36.016 N	109° 22' 12.648 W 109° 22' 12.648 W
		0.00	0,394.00	250.76	490.55	14,521,722.57	2,097,027.40	39 30 30.010 N	109 22 12.046 W
MESAVE 6,500.00	0.00	0.00	6,438.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
6,600.00	0.00	0.00	6,538.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
6,700.00	0.00	0.00	6,638.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
6,800.00	0.00	0.00	6,738.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
6,900.00	0.00	0.00	6,838.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
7,000.00	0.00	0.00	6,938.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
7,100.00	0.00	0.00	7,038.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
7,200.00	0.00	0.00	7,138.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
7,300.00	0.00	0.00	7,238.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
7,400.00	0.00	0.00	7,338.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
7,500.00	0.00	0.00	7,438.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
7,600.00	0.00	0.00	7,538.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
7,700.00	0.00	0.00	7,638.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
7,800.00	0.00	0.00	7,738.09	256.78 256.78	496.55 496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W 109° 22' 12.648 W
7,900.00 8,000.00	0.00	0.00 0.00	7,838.09 7,938.09	256.78 256.78	496.55 496.55	14,521,722.57 14,521,722.57	2,097,027.46 2,097,027.46	39° 58' 36.016 N 39° 58' 36.016 N	109° 22' 12.648 W
8,100.00	0.00	0.00	8,038.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
8,200.00	0.00	0.00	8,138.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
8,300.00	0.00	0.00	8,238.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
8,400.00	0.00	0.00	8,338.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W
8,500.00	0.00	0.00	8,438.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
8,600.00	0.00	0.00	8,538.09	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
8,605.91	0.00	0.00	8,544.00	256.78	496.55	14,521,722.57	2,097,027.46	39° 58′ 36.016 N	109° 22' 12.648 W
BONANZ	'A 1023-6K1C	S PBHL							



Company:

SDIPlanning Report - Geographic



Database: EDM5000-RobertS-Local

Kerr McGee Oil and Gas Onshore LP

Project: Uintah County, UT UTM12

Site: Bonanza 1023-6K Pad
Well: BONANZA 1023-6K1CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well BONANZA 1023-6K1CS

GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED) GL 5219 & RKB 14'

@ 5233.00ft (ASSUMED)

True

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BONANZA 1023-6K1CS - plan hits target centricle (radius 25.00		0.00	8,544.00	256.78	496.55	14,521,722.57	2,097,027.46	39° 58' 36.016 N	109° 22' 12.648 W

Casing Points							
	Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter	
	(ft)	(ft)		Name	(in)	(in)	
	2,349.38	2,301.00	8 5/8"		8.625	11.000	

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,240.32	1,226.00	GREEN RIVER				
	4,298.91	4,237.00	WASATCH				
	6,455.91	6,394.00	MESAVERDE				

Plan Annotations				
Measured	Vertical	Local Coordinates		
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,011.79	1,004.49	40.41	78.14	Start 1506.65 hold at 1011.79 MD
2,518.44	2,464.87	210.60	407.25	Start Drop -1.75
3,331.91	3,270.00	256.78	496.55	Start 5274.00 hold at 3331.91 MD
8,605.91	8,544.00	256.78	496.55	TD at 8605.91

Bonanza 1023-6K Pad Surface Use Plan of Operations 1 of 7

Kerr-McGee Oil & Gas Onshore. L.P.

Bonanza 1023-6F Pad

<u>API #</u>	Е			
	Surface:	1870 FSL / 1712 FWL	NESW	Lot
	BHL:	2286 FNL / 507 FWL	SWNW	Lot 5
<u>API #</u>	<u>B</u>	SONANZA 1023-6J2AS		
	Surface:	1907 FSL / 1728 FWL	NESW	Lot
	BHL:	2556 FSL / 2100 FEL	NWSE	Lot
<u>API #</u>	В	SONANZA 1023-6K1CS		
	Surface:	1915 FSL / 1732 FWL	NESW	Lot
	BHL:	2170 FSL / 2228 FWL	NESW	Lot
<u>API #</u>	В	SONANZA 1023-6K2BS		
	Surface:	1897 FSL / 1724 FWL	NESW	Lot
	BHL:	2590 FSL / 1412 FWL	NESW	Lot
<u>API #</u>	Е			
	Surface:	1888 FSL / 1720 FWL	NESW	Lot
	BHL:	2165 FSL / 1485 FWL	NESW	Lot
<u>API #</u>	В			
	Surface:	1861 FSL / 1708 FWL	NESW	Lot
	BHL:	2590 FSL / 541 FWL	NWSW	Lot 6
<u>API #</u>	В	SONANZA 1023-6L2DS		
	Surface:	1852 FSL / 1704 FWL	NESW	Lot
	BHL:	2087 FSL / 557 FWL	NWSW	Lot 6

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information incorporates by reference the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (KMG). The MDP is available upon request from the BLM-Vernal Field Office.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on June 16, 2010. Present were:

- · Dave Gordon, Suzanne Gray and Dan Emmett BLM;
- · John Slaugh, Brock Slaugh and Mitch Batty- Timberline Engineering & Land Surveying, Inc.; and
- · Roger Parry, Clay Einerson, Grizz Oleen, Sheila Wopsock, Lovell Young, Grizz Oleen, Hal Blanchard, Lance Morton, Tim Donovan, Kathie Zehren, Laura Gianakos and Charles Chase Kerr-McGee

Bonanza 1023-6E3AS/ 1023-6J2AS/ 1023-6K1CS/ 1023-6K2BS/ 1023-6K2CS/ 1023-6L2AS/ 1023-6L2DS Kerr-McGee OII Gas Onshore, L.P.

Bonanza 1023-6K Pad Surface Use Plan of Operations 2 of 7

A. Existing Roads:

A) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

The following segments are "onlease", no ROW needed.

 $\pm 1,940'$ (0.4 miles) – Section 6 T10S R23E (NE/4 SW/4) – On-lease UTU38419, from the end of the new road re-route to the southern section line boundary. Please refer to Topo B and Exhibit B2.

B. New or Reconstructed Access Roads:

See MDP for additional details on road construction.

 $\pm 80'$ (0.02 miles) – Section 6 T10S R23E (NE/4 SW/4) – On-lease UTU38419, from the edge of pad a new road re-route will be constructed. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

See MDP for additional details on Location of Existing and/or Proposed Facilities. Also, please refer to Exhibit B and Topo D- Pad and Pipeline Detail.

This pad will expand the existing pad for the Bonanza 6-2, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on December 29, 2010. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (KMG).

GAS GATHERING

The gas gathering pipeline material: Steel line pipe with fusion bond epoxy coating. The total gas gathering pipeline distance from the meter to the tie in point is $\pm 5,060$ ° and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±820' (0.2 miles) Section 6 T10S R23E (NE/4 SW/4) On-lease UTU38419, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D-Pad and Pipeline Detail.
- ±2,020' (0.04 miles) Section 6 T10S R23E (NE/4 SW/4) On-lease UTU38419, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to the southern section and lease line boundary. Please refer to Topo D Pad and Pipeline Detail and Exhibit A1.

The following segments require a ROW.

- ±1,220' (0.2 miles) Section 7 T10S R23E (NW/4 NE/4) Lease UTU38420, BLM surface, New 8" buried gas gathering pipeline from the northern section line boundary to the tie-in at the new 12" buried gas gathering pipeline (NW/4 NE/4). Please refer to Exhibit A1, Line 16.
- ±1,000' (0.2 miles) Section 7 T10S R23E (NW/4 NE/4) Lease UTU38420, BLM surface, New 12" buried gas gathering pipeline from the tie-in (NW/ NE/4) to the tie-in at the existing 16" buried gas gathering pipeline (SE/4 NW/4). Please refer to Exhibit A1, Line 15.

Bonanza 1023-6K Pad Surface Use Plan of Operations 3 of 7

LIQUID GATHERING

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 5,060$ ° and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±820' (0.2 miles) Section 6 T10S R23E (NE/4 SW/4) On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D Pad and Pipeline Detail.
- ±2,020' (0.04 miles) Section 6 T10S R23E (NE/4 SW/4) On-lease UTU38419, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the southern section and lease line boundary. Please refer to Topo D Pad and Pipeline Detail and Exhibit B, Line 6.

The following segments require a ROW.

±2,220' (0.4 miles) – Section 7 T10S R23E (NW/4 NE/4) – Lease UTU38420, BLM surface, New 6" 6" buried liquid gathering pipeline from the northern section line boundary to the tie-in at the existing buried liquid gathering line (SE/4 NW/4 of section 7).

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed buried pipelines will be constructed utilizing existing disturbance when possible. The area of disturbance during construction from the edge of road or well pad will be 30' in width. The total pipeline disturbance width will be 30'. Where possible there will be no additional disturbance during construction, as the road will be utilized for construction vehicles. The liquid and gas gathering lines will be in the same trench.

The proposed trench width for the pipeline would range from 18-48 inch and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. The pipeline will be welded or zap locked along the proposed right-of-way and lowered into place. During construction blasting may occur along the proposed right-of-way when trenching equipment can not cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically tested before being placed into service.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to the MDP for more details regarding final reclamation. Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations to connect the new line to existing facilities and/or for safety purposes. Kerr-McGee requests for a permanent 30' right-of-way that will be maintained for the portion adjacent to the road. The need for the 30' permanent right-of-way is for maintenance and repairs.

When no longer serving a useful purpose, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before termination.

Bonanza 1023-6K Pad Surface Use Plan of Operations 4 of 7

The Anadarko Completions Transportation System (ACTS) information:

See MDP for additional details on the ACTS System.

Upon completion of the wells on this pad, Kerr-McGee is also requesting to utilize this pit as an Anadarko Completion Transport System (ACTS) staging pit which will be utilized for other completion operations in the area. The ACTS process will reduce the amount of truck traffic on a field-wide basis, also reducing vehicle emissions and fugitive dust generation.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The refurbished pit will be relined per the guidelines in the MDP. The pit will be refurbished as follows: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit that does not coincide with Kerr-McGee's MDP. Hog fence panels (5' X 16') will be built and painted shadow gray and will be put up on the work side of the pit. Polypropylene netting will be installed over all pits. There will be two 500 bbl temporary frac tanks placed on the location. The trucks will unload water into these tanks before the water is placed into the refurbished pit. The

purpose of the temporary frac tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will be also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit.

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig.

Kerr-McGee requests to keep this netted pit open for one year. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim as stated in the MDP. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307 JD Field Services Green River- Section 15, T2N, R22E Permit # 49-2321 R.N. Industries White River- Section 2, T10S, R24E

Bonanza 1023-6K Pad Surface Use Plan of Operations 5 of 7

Permit # 49-2319 R.N. Industries White River- Various Sources
Permit # 49-2320 R.N. Industries Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

See MDP for additional details on Source of Construction Materials.

G. Methods for Handling Waste:

See MDP for additional details on Methods of Handling Waste Materials

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities. None are anticipated.

I. Well Site Layout:

See MDP and Well Pad Design Summary for additional details on Well Site Layout.

J. Plans for Surface Reclamation:

See MDP for additional details on Plans for Reclamation of the Surface.

Site Specific Reclamation Considerations:

Bonanza 1023-6K Pad Surface Use Plan of Operations 6 of 7

Reclamation Monitoring Reference Point for all wells on Pad (where a reclamation monitoring point has not been established at the time of APD submission, it will be submitted for approval under separate cover prior to surface disturbing activities):

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Bonanza Area Mix	Pure Live Seed lbs/acre
Crested Wheat (Hycrest)	2
Bottlebrush Squirreltail	1
Western Wheatgrass (Arriba)	1
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee Plant	0.5
Total	9.75

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

See MDP for additional details on Other Information.

Onsite Specifics:

Construction: 30 Mil Double Felt
Facilities: Will be painted Shadow Grey
Top Soil: Need to save 4" topsoil

Resource Reports:

A Class I literature survey was completed on August 20, 2010 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-066b.

A paleontological reconnaissance survey was completed on May 11, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-28.

Biological field survey was completed on May 3, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-218.

Right-of-Ways (ROW):

See MDP for additional information on ROW

Bonanza 1023-6K Pad Surface Use Plan of Operations 7 of 7

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T.Becker

December 29, 2010

Date



Kerr-McGee Oil & Gas Onshore LP P.O. Box 173779 Denver, CO 80217-3779

June 30, 2010

Ms. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

Re: Exception Location R649-3-3 and Directional Drilling R649-3-11
Bonanza 1023-6K1CS
T10S- R23E
Section 6: NESW/NESW

Section 6: NESW/NESW 1915' FSL, 1732' FWL (surface) 2170' FSL, 2228' FWL (bottom hole) Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-3 and Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

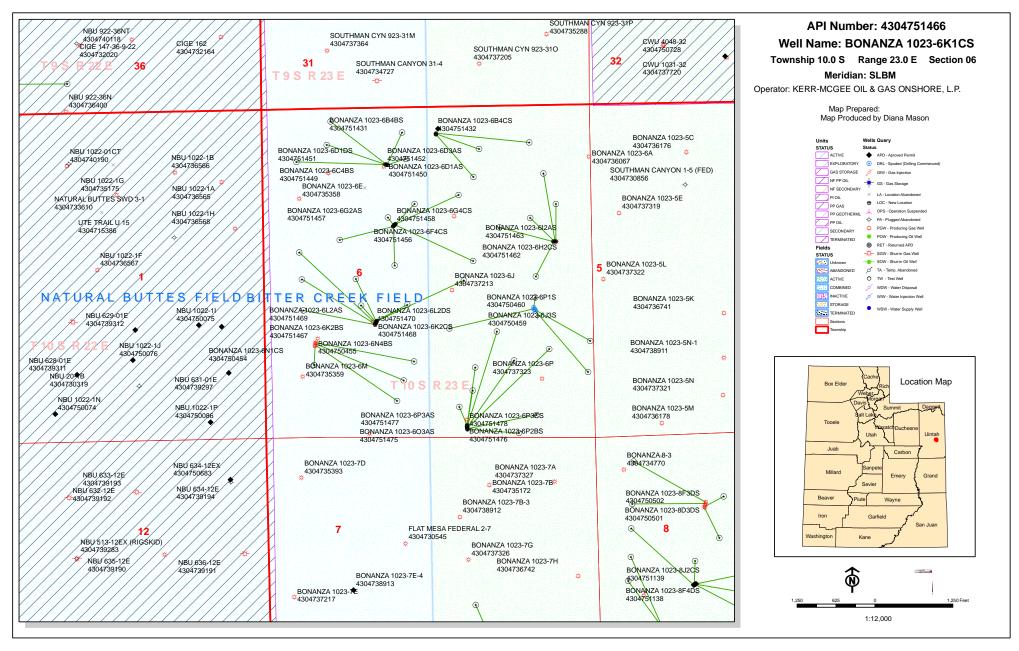
- Kerr-McGee's Bonanza 1023-6K1CS is located within the area covered by Docket No. 2008-011 authorizing the equivalent of an approximate 10-acre well density pattern, and requiring approval for wells drilled at an exception location and wells drilled directionally in accordance with the referenced rules.
- Kerr-McGee is permitting this well at this location for geological reasons. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to minimize surface disturbance.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire
 directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to Rule R6493-3 and Rule R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Jessy Pink Landman



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/4/2011 **API NO. ASSIGNED:** 43047514660000

WELL NAME: BONANZA 1023-6K1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: NESW 06 100S 230E Permit Tech Review:

SURFACE: 1915 FSL 1732 FWL Engineering Review:

BOTTOM: 2170 FSL 2228 FWL Geology Review:

COUNTY: UINTAH

LATITUDE: 39.97595 **LONGITUDE:** -109.37210

UTM SURF EASTINGS: 639013.00 **NORTHINGS:** 4426147.00

FIELD NAME: NATURAL BUTTES **LEASE TYPE:** 1 - Federal

LEASE NUMBER: UTU38419 PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

Drilling Unit

SURFACE OWNER: 1 - Federal COALBED METHANE: NO

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

▶ PLAT R649-2-3.

▶ Bond: FEDERAL - WYB000291 **Unit:**

Potash R649-3-2. General

Oil Shale 190-5

Water Permit: Permit #43-8496 Board Cause No: Cause 179-14

Water Permit: Permit #43-8496 Board Cause No: Cause 179-14

RDCC Review: Effective Date: 6/12/2008

Fee Surface Agreement

Siting: 460' Fr Exterior Drilling Unit Boundary

✓ Intent to Commingle
✓ R649-3-11. Directional Drill

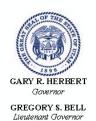
Commingling Approved

Oil Shale 190-13

Comments: Presite Completed

Stipulations: 1 - Exception Location - dmason

3 - Commingling - ddoucet 4 - Federal Approval - dmason 15 - Directional - dmason API Well No: 43047514660000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: BONANZA 1023-6K1CS

API Well Number: 43047514660000

Lease Number: UTU38419 Surface Owner: FEDERAL Approval Date: 1/19/2011

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

Commingle:

In accordance with Board Cause No. 179-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

API Well No: 43047514660000

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Form 3160-3 (August 2007)

RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR JAN 04 2018 BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

Lease Serial No.

	$\mathcal{L}\mathcal{D}$		
APPLICATION FOR PERMIT	TO DRILL OR REE	6. If Indian, Allottee or Tribe Name	
Ia. Type of Work: DRILL REENTER		7. If Unit or CA Agreement, Name and	i No.
lb. Type of Well: ☐ Oil Well Gas Well ☐ Otl	ner Single Zone 🙀 Multiple Zone	Lease Name and Well No. BONANZA 1023-6K1CS	
KERR-MCGEE OIL & GAS ONSHOREDail: GINA.BI		9. API Well No. 43-647-51466	
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	10. Field and Pool, or Exploratory BONANZA	
4. Location of Well (Report location clearly and in according	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey	y or Area
	39.97593 N Lat, 109.37263 W Lon	Sec 6 T10S R23E Mer SLB	
At proposed prod. zone NESW 2170FSL 2228FWL	•		
14. Distance in miles and direction from nearest town or post APPROXIMATELY 51.7 MILES SOUTH OF VER	office* RNAL, UTAH	12. County or Parish 1 UINTAH	3. State UT
 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2170 	16. No. of Acres in Lease 516.80	17. Spacing Unit dedicated to this well	l
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on file	
591	8606 MD 8544 TVD	WYB000291	
21. Elevations (Show whether DF, KB, RT, GL, etc. 5221 GL	22. Approximate date work will start 06/30/2011	23. Estimated duration 60-90 DAYS	
	24. Attachments		
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of 	4. Bond to cover the operation ltem 20 above). em Lands, the 5. Operator certification	ns unless covered by an existing bond on formation and/or plans as may be required	`
25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 01/04	1/2011
Title REGULATORY ANALYST II		····	
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date NOV n	7 2011
Title Assistant Field Manager	Office	1010	8 4-4-11
Lands & Mineral Resources	VERNAL FIELD OFFICE		
Application approval does not warrant or certify the applicant hoperations thereon.	or equitable title to those rights in the subject le	ease which would entitle the applicant to	conduct

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

RECEIVED

Electronic Submission #99979 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 01/05/2011 DIV OF OIL, GAS & MINING



NOTICE OF APPROVAL **CONDITIONS OF APPROVAL ATTACHED**

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

IORRHOZ97AE

NOS 4/26/2010



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No: Kerr McGee Oil & Gas Onshore

170 South 500 East

Bonanza 1023-6K1CS

43-047-51466

Location:

NESW, Sec.6, T10S, R23E

Lease No: UTU-38419

Agreement:

N/A

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	_	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut vn opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	_	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.

Site Specific Conditions of Approval

General Conditions of Approval

- Kerr McGee will adhere to all applicant committed conservation measures and conservation recommendations that are stated in the USFWS's "Final Biological Opinion for the Anadarko Petroleum Corporation Natural Buttes Unit and Bonanza Area Natural Gas Development Project.
- The operator will follow the Green River District Reclamation Guidelines for Reclamation.
- During operations if any vertebrate paleontological resources are discovered, in accordance with Section 6 of Form 3100-11 and 43 CFR 3162.1, all operations affecting such sites shall be immediately suspended, and all discoveries shall be left intact until authorized to proceed by the Authorized Officer. The appropriate Authorized Officer of the Vernal BLM office shall be notified within 48 hours of the discovery, and a decision as to the preferred alternative/course of action will be rendered.

Mitigation for Invasive Weeds

- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas would be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established.
- Noxious and invasive weeds would be controlled throughout the area of project disturbance.
- Noxious weeds would be inventoried and reported to BLM in the annual reclamation report. Where
 an integrated pest management program is applicable, coordination has been undertaken with the
 state and local management program (if existing). A copy of the pest management plan would be
 submitted for each project.
- A pesticide use permit (PUP) would be obtained for the project, if applicable.

Page 3 of 6 Well: Bonanza 1023-6K1CS 9/16/2011

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- <u>Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.</u>
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily
 drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order
 No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a
 test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's
 log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

Page 4 of 6 Well: Bonanza 1023-6K1CS 9/16/2011

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 6 Well: Bonanza 1023-6K1CS 9/16/2011

OPERATING REQUIREMENT REMINDERS:

• All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (1/41/4, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

Page 6 of 6 Well: Bonanza 1023-6K1CS 9/16/2011

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
 Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
 future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
 BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
 hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
 be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to
 the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first.
 All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All
 product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in
 accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

	STATE OF UTAH		FORM 9		
ı	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419		
SUNDR	SUNDRY NOTICES AND REPORTS ON WELLS				
	posals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-6K1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047514660000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5NATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1915 FSL 1732 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NESW Section: (HIP, RANGE, MERIDIAN: 06 Township: 10.0S Range: 23.0E Meridi	ian: S	STATE: UTAH		
11. CHECI	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
,	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
1/19/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION		
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:					
Julio 3. Opuu.	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON		
	L TUBING REPAIR		WATER DISPOSAL		
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION		
	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
Kerr-McGee Oil & G an extension to this	completed operations. Clearly show a last Onshore, L.P. (Kerr-McGe APD for the maximum time a with any questions and/or co	ee) respectfully requests allowed. Please contact	lepths, volumes, etc. Approved by the Urahuaiyiอ่อกวดที่ 2 Oil, Gas and Mining		
			Date:		
			Ву:		
NAME (PLEASE PRINT)	PHONE NUMBE	R TITLE			
Danielle Piernot	720 929-6156	Regulatory Analyst			
SIGNATURE N/A		DATE 1/17/2012			



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047514660000

API: 43047514660000 **Well Name:** BONANZA 1023-6K1CS

Location: 1915 FSL 1732 FWL QTR NESW SEC 06 TWNP 100S RNG 230E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 1/19/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? Yes No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Danielle Piernot Date: 1/17/2012

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Jan. 17, 2012

	STATE OF UTAH		FORM 9
ſ	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MII		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
SUNDR	Y NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-6K1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047514660000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929	9. FIELD and POOL or WILDCAT: -65NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1915 FSL 1732 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 06 Township: 10.0S Range: 23.0E Meri	dian: S	STATE: UTAH
11. CHECK	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPO	DRT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud: 3/9/2012	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
0/3/2012	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
	WILDCAT WELL DETERMINATION	U OTHER	<u> </u>
MIRU TRIPPLE A BU RAN 14" 36.7# SCI	COMPLETED OPERATIONS. Clearly show JCKET RIG. DRILLED 20" COI HEDULE 10 PIPE. CMT W/28 ELL ON 03/09/2012 AT 110	NDUCTOR HOLE TO 40'. SX READY MIX. SPUD	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 16, 2012
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUME 435 781-7024	BER TITLE Regulatory Analyst	
SIGNATURE N/A		DATE 3/14/2012	

Sundry Number: 23979 API Well Number: 43047514660000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE	ES	FORM 9
ı	DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.	deepen existing wells below ntal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-6K1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047514660000
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QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 06 Township: 10.0S Range: 23.0E Meric	lian: S	STATE: UTAH
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TYPE OF SUBMISSION		TYPE OF ACTION	
17	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
3/19/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Bate of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	☐ PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Bate.	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	all pertinent details including dates, o	lepths, volumes, etc.
Specifically, the operation, a surface of other aspects of the	quests approval for changes perator requests approval fo casing change and a product e previously approved drillines case see the attachment. Tha	r a closed loop drilling ion casing change. All g plan will not change.	Accepted by the Utah Division of Oil, Gas and Mining Date: March 20, 2012
Fie	ase see the attachment. Tha	rik you.	By: Dor K Out
NAME (PLEASE PRINT)	PHONE NUMB		
Jaime Scharnowske	720 929-6304	Regulartory Analyst	
SIGNATURE N/A		DATE 3/19/2012	

Bonanza 1023-6K1CS Drilling Program
1 of 7

Kerr-McGee Oil & Gas Onshore. L.P.

BONANZA 1023-6K1CS

Surface: 1915 FSL / 1732 FWL NESW BHL: 2170 FSL / 2228 FWL NESW

Section 6 T10S R23E

Uintah County, Utah Mineral Lease: UTU-38419

ONSHORE ORDER NO. 1

DRILLING PROGRAM

Estimated Tops of Important Geologic Markers: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Hinto	0 - Surface	
Uinta	0 - Surface	
Green River	1,226'	
Birds Nest	1,489'	Water
Mahogany	1,851'	Water
Wasatch	4,237'	Gas
Mesaverde	6,394'	Gas
Sego	8,455'	Gas
TVD	8,544'	
TD	8,606'	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Drilling Program

5. <u>Drilling Fluids Program</u>:

Please refer to the attached Drilling Program

6. <u>Evaluation Program</u>:

Please refer to the attached Drilling Program

Bonanza 1023-6K1CS Drilling Program 2 of 7

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8544' TVD, approximately equals 5,468 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,576 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Bonanza 1023-6K1CS Drilling Program 3 of 7

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

Bonanza 1023-6K1CS Drilling Program
4 of 7

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. <u>Other Information:</u>

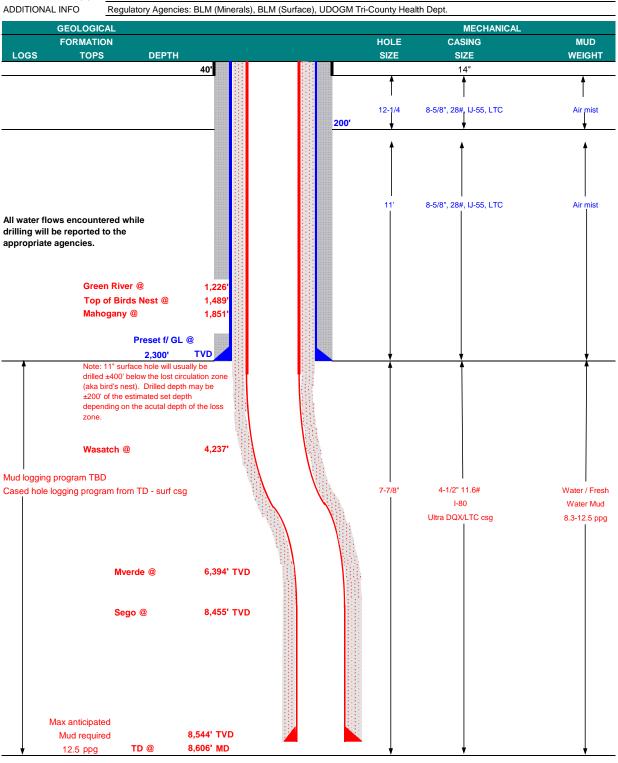
Please refer to the attached Drilling Program.

Bonanza 1023-6K1CS Drilling Program 5 of 7



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KER	R-McGEE O	IL & GAS ONSI	HORE LP		DATE	March 1	9, 2012	
WELL NAME BO	NANZA 10	023-6K1CS			TD	8,544'	TVD	8,606' MD
FIELD Natural Butte	S	COUNTY	' Uintah S	TATE Uta	h	FINISH	HED ELEVATION_	5,219'
SURFACE LOCATION	NESW	1915 FSL	1732 FWL	Sec 6	T 10S	R 23E		
	Latitude:	39.975932	Longitude:	-109.37	2632		NAD 83	
BTM HOLE LOCATION	NESW	2170 FSL	2228 FWL	Sec 6	T 10S	R 23E		
	Latitude:	39.976637	Longitude:	-109.37	0859		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/M	1esaverde						
ADDITIONAL INFO	Pegulatory	Agencies: BLM	I (Minerale) RI N	1 (Surface)	LIDOGM	Tri-County F	Joalth Dont	



Bonanza 1023-6K1CS Drilling Program
6 of 7



CASING PROGRAM

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM								DESIGN	FACTURS		
										LTC	DQX
	SIZE	INTE	ERVAL	_	WT.	GR.	CPLG.	BURST	COLLA	NPSE .	TENSION
CONDUCTOR	14"	0	-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,300	28.00	IJ-55	LTC	2.35	1.75	6.17	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.14		3.31
	4-1/2"	5,000	to	8,606'	11.60	I-80	LTC	1.11	1.14	6.59	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water	to surface,	option 2 wi	l be utilized	
Option 2 LEAD	1,800'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,736'	Premium Lite II +0.25 pps	290	35%	12.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	4,870'	50/50 Poz/G + 10% salt + 2% gel	1,150	35%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

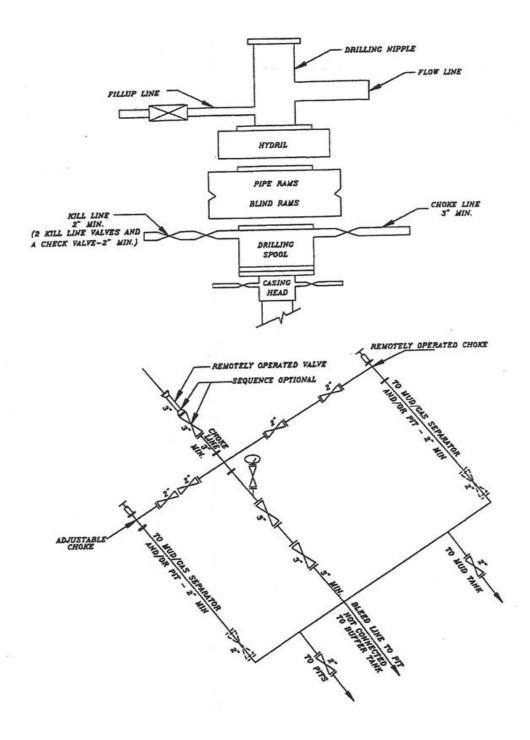
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

Kenny Gathings / Lovel Young

DRILLING ENGINEER:		DATE:	
	Nick Spence / Danny Showers / Chad Loesel		
DRILLING SUPERINTENDENT:		DATE:	

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A
BONANZA 1023-6K1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

RECEIVED: Mar. 19, 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address:

1368 SOUTH 1200 EAST

city VERNAL

zip 84078 state UT

Phone Number: (435) 781-7024

Well 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County	
4304751466	BONANZA 1023-6K1	CS	NESW	6	108	23E	UINTAH	
Action Code	Current Entity Number	s	Spud Date			ity Assignment Iffective Date		
Pr	99999	18450	3/9/2012		31	3/20/2012		

Comments:

MIRU TRIPPLE A BUCKET RIG.

WSMVD

SPUD WELL ON 03/09/2012 AT 1100 HRS. BHL NES

Well 2

API Number	Wel	l Name	QQ	Sec	Twp	Rng	County		
4304751465	BONANZA 1023-6J2AS		BONANZA 1023-6J2AS NESW 6	6	108	23E	UINTAH		
Action Code	Current Entity Number	New Entity Number	Spud Date 3/9/2012			Entity Assignment Effective Date			
A	99999	18,451				3/20/2012			

MIRU TRIPPLE A BUCKET RIG.

SPUD WELL ON 03/09/2012 AT 0800 HRS.

Well 3

API Number	Well Name QQ				Twp	Rng	County
4304751467	BONANZA 1023-6K2	2BS	NESW	6	108	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18452		3/8/2012			20 20 2
Comments: MIRI SPU	J TRIPPLE A BUCKET D WELL ON 03/08/2012		av n	SIL)	•	

ACTION CODES:

A - Establish new entity for new well (single well only)

B - Add new well to existing entity (group or unit well)

C - Re-assign well from one existing entity to another existing entity

D - Re-assign well from one existing entity to a new entity
E - Other (Explain in 'comments' section)

SHEILA WOPSOCK

Name (Please Print)

Signature **REGULATORY ANALYST**

Title

3/13/2012 Date

MAR 1 5 2012

(5/2000)

	STATE OF UTAH		FORM 9						
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419						
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:								
Do not use this form for procurrent bottom-hole depth, IFOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME:								
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-6K1CS						
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047514660000						
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 17 3779 720 929-	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES						
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1915 FSL 1732 FWL			COUNTY: UINTAH						
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 06 Township: 10.0S Range: 23.0E Meri	idian: S	STATE: UTAH						
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA						
TYPE OF SUBMISSION		TYPE OF ACTION							
	ACIDIZE	ALTER CASING	CASING REPAIR						
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME						
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE						
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION						
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK						
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION						
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON						
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL						
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION						
3/28/2012	_	OTHER	OTHER:						
	WILDCAT WELL DETERMINATION	U OTHER	·						
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON MARCH 26, 2012. DRILLED SURFACE HOLE TO 2488'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT. COMPLETION REPORT. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 04, 2012									
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUM! 720 929-6304	BER TITLE Regulartory Analyst							
SIGNATURE N/A		DATE 3/29/2012							

Sundry Number: 26560 API Well Number: 43047514660000

	STATE OF UTAH		FORM 9			
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419			
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME:					
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-6K1CS			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047514660000			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-6	9. FIELD and POOL or WILDCAT: 5NATURAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1915 FSL 1732 FWL			COUNTY: UINTAH			
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 06 Township: 10.0S Range: 23.0E Merid	an: S	STATE: UTAH			
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
	ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION			
6/5/2012	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION					
		SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON			
DRILLING REPORT	L TUBING REPAIR	VENT OR FLARE	☐ WATER DISPOSAL ☐			
Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION			
	WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: ACTS PIT			
MIRU ROTARY R 6/3/2012. RAN 4-1/ PRODUCTION CASI HRS. DETAILS OF COMPLETION RE ACTIVITIES.THE P	COMPLETED OPERATIONS. Clearly show a I.IG. FINISHED DRILLING FRO /2" 11.6# I-80 PRODUCTION NG. RELEASED XTREME 12 IF CEMENT JOB WILL BE INCLUSEPORT. WELL IS WAITING ON IT ON THIS LOCATION WILL BIJIZED AS PART OF THE ACTS S	M 2488' TO 8640' ON CASING. CEMENTED RIG ON 6/5/2012 @ 8:00 DED WITH THE WELL FINAL COMPLETION E REFURBISHED AND	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 13, 2012			
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBI 720 929-6029	R TITLE Regulatory Analyst I				
SIGNATURE		DATE				
N/A		6/6/2012				

	STATE OF UTAH		FORM 9			
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419			
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for pro current bottom-hole depth, r FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME:					
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-6K1CS			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047514660000			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PHC n Street, Suite 600, Denver, CO, 80217 377	DNE NUMBER: 79 720 929-6	9. FIELD and POOL or WILDCAT: 5NIATUERAL BUTTES			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1915 FSL 1732 FWL			COUNTY: UINTAH			
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NESW Section: 0	IIP, RANGE, MERIDIAN: 06 Township: 10.0S Range: 23.0E Meridian:	S	STATE: UTAH			
11. CHEC	CAPPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPOR	T, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
	_ ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
SUBSEQUENT REPORT	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
Date of Work Completion:	L DEEPEN L	FRACTURE TREAT	☐ NEW CONSTRUCTION			
		PLUG AND ABANDON	PLUG BACK			
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
✓ DRILLING REPORT		VENT OR FLARE	WATER DISPOSAL			
Report Date: 8/2/2012	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION			
07272012	WILDCAT WELL DETERMINATION	OTHER	OTHER:			
No activity fo	COMPLETED OPERATIONS. Clearly show all people the month of July 2012. Well	TD at 8,640'.	epths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 02, 2012			
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I				
SIGNATURE N/A		DATE 8/2/2012				

	STATE OF UTAH		FORM 9			
	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38419			
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
	posals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME:			
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-6K1CS			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047514660000			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 720 929-6	9. FIELD and POOL or WILDCAT: 5NIATUERAL BUTTES			
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QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 06 Township: 10.0S Range: 23.0E Merio	dian: S	STATE: UTAH			
11. CHECI	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
	ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION			
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION			
8/20/2012	WILDCAT WELL DETERMINATION	OTHER	OTHER:			
THE SUBJECT WEL	COMPLETED OPERATIONS. Clearly show a L WAS PLACED ON PRODUC WELL HISTORY WILL BE SUBN COMPLETION REPORT.	TION ON 8/20/2012. THE	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 24, 2012			
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMB 720 929-6029	ER TITLE Regulatory Analyst I				
SIGNATURE N/A		DATE 8/24/2012				

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

	WELL C	COMPL	ETION C	R REC	COM	PLETI	ON RI	EPOR	T A	AND L	OG				ase Serial TU38419	No.	
la. Type of	f Well	Oil Well	🛭 Gas 🕻	Well	Dr	у 🗆	Other							6. If	Indian, All	ottee o	r Tribe Name
b. Type of	f Completion	☑ N Othe	lew Well er	☐ Work	Over		Deepen	□ P1	lug E	Back	☐ Di	ff. Re	svr.	7. Uı U	nit or CA A	greem A	ent Name and No.
2. Name of	Operator	& GAS	ONSHORE	-lMail· ca		Contact: (₹					8. Le B	ase Name ONANZA	and We 1023-	ell No. 6K1CS
3 Address 1099 18TH STREET SUITE 1800 3a. Phone No. (include area code) 9. API Well No.											43-047-51466						
4. Location	of Well (Rep			d in acco	rdance	e with Fe								10. F	ield and Po	ool, or	Exploratory
At surfa	ice NESW	1915FS	L 1732FWL	39.9759	932 N	Lat, 109	3.37263	2 W Loi	n					11. S	ec., T., R.,	M., or	Block and Survey 0S R23E Mer SLB
At top p	rod interval r	-		W 2174			_							12. (County or P		13. State
At total		SW 2157	FSL 2244F\			W HE	M<								INTAH	(D.D. 171	UT UT
14. Date Sp 03/09/2				ate T.D. F /03/2012		ed '	j		& A	Complete 2012	ed Ready				52	19 GL	B, RT, GL)*
18. Total D	epth:	MD TVD	8640 8573		19. Pl	lug Back	T.D.:	MD TVD)	858 851			20. Dep	th Bri	dge Plug S		MD TVD
21. Type E CBL/GI	lectric & Oth R/CCL/TEM	er Mecha P	nical Logs R	un (Subm	it cop	y of each)				V	Vas D	ell corec ST run? ional Su			☐ Yes ☐ Yes █ Yes	s (Submit analysis) s (Submit analysis) s (Submit analysis)
23. Casing at	nd Liner Reco	ord (Repo	ort all strings	set in we	ll)												
Hole Size	Size/Gr	rade	Wt. (#/ft.)	Top (MD)		Bottom (MD)		Cement Depth	ter	No. of Type of	f Sks. & f Ceme	1	Slurry (BB		Cement	Top*	Amount Pulled
20.000	14.0	000 STL	36.7	<u> </u>	0		0		+			28					
11.000		25 IJ-55	28.0	 -	의	245			+			650				0 1870	
7.875	4.	500 I-80	11.6	-	의	862	8		╌			350				10/0	
	 			 			+		十								
	 				_		+-		十	***************************************							
24. Tubing	Record																
Size	Depth Set (M	ID) P	acker Depth	(MD)	Size	De	oth Set (MD)	Pac	cker Dep	th (Ml	D)	Size	De	pth Set (M	D)	Packer Depth (MD)
2.375		7994												1			
25. Produci	ng Intervals						6. Perfor					Τ.		Т,			D . C C/. /
	ormation		Тор	-	Botto			Perforate	_		0.607	Size			No. Holes	ODE	Perf. Status
<u>A)</u>	WASA			6248		6378 8438							0.360 24 OPEN 0.360 144 OPEN				
B)	MESAVE	KUE		7072		0430				1012 1	0 0-10	╫	0.0	-		1	<u> </u>
C) D)												十					
27. Acid, F1	racture, Treat	ment, Cer	ment Squeeze	e, Etc.													
	Depth Interva	ıl								ount and			aterial				
	62	48 TO 8	438 PUMP 7	,814 BBL	S SLI	CK H2O 8	327,92	5 LBS 30	0/50	OTTAW	A SAN	D					
																	
28 Product	ion - Interval	A		· · · · · · · · · · · · · · · · · · ·													
Date First	Test	Hours	Test	Oil	Ga		Water		Grav			Jas		Product	ion Method		
Produced	Date 08/22/2012	Tested 24	Production	BBL 0.0	1	CF 1885.0	BBL 0.0	1	rr. AF	PI	10	3ravity			FLO	WS FR	OM WELL
08/20/2012 Choke	Tbg. Press.	Csg.	24 Hr.	Oil	Gr		Water		s:Oil		v	Vell St	atus				
Size	Flwg. 1347	Press.	Rate	BBL	М	CF 400E	BBL 0	Ra	tio			p	GW				
20/64	si tion - Interva	1962.0	1	0		1885		L			1	Γ'					
Date First	Test	Hours	Test	Oil	Ga	15	Water	Oi	l Grav	vity		Jas		Product	ion Method		
Produced	Date	Tested	Production	BBL		CF	BBL	Co	orr. AI	PI		3ravity 					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Ga M	as CF	Water BBL	Ga Ra	s:Oil tio	. –	V	Well St	atus				DECEME
		1		1			1	1									

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #149548 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** SEP 1 9 2012

401 7 1		-1 C										
28b. Produ	Test	al C Hours	Test	Oil	Gas	Water	Oil Gravity		Gas	Production Method	· · · · · · · · · · · · · · · · · · ·	
Produced	Date	Tested	Production	BBL	MCF	BBL	Corr. API		Gravity			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status			
28c. Produ	uction - Interv	al D			•							
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API		Gas Gravity			
Choke Size	Tog. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	:	Well Status			
29. Dispos	sition of Gas(S	old, used f	or fuel, vent	ed, etc.)		<u> </u>	. <u>L</u>					
	ary of Porous	Zones (Inc	lude Aquife	rs):					31. For	mation (Log) Markers		
Show tests, i	all important a including depti coveries.	ones of no	rosity and c	ontents there	eof: Cored in e tool open,	ntervals and a flowing and s	ill drill-stem shut-in pres	n sures				
	Formation		Тор	Bottom		Description	is, Contents	, etc.		Name	Top Meas. Depth	
The fi of the ft; LT(ional remarks irst 210 ft. of surface hole C csg was ru y, perforation	the surfac was drille n from 4,9	e hole was ed with an 1 80 ft. to 8,6	drilled with I1 in. bit. D 328 ft. Atta	OX csd wa	s run from s	urface to 4	i,980	BIF MA W/	REEN RIVER RD'S NEST HOGANY ASATCH ESAVERDE	1243 1512 1972 4292 6441	
33, Circle	enclosed attac	chments:		, ,				<u>.</u>				
1. Ele	ectrical/Mecha ndry Notice fo	nical Logs				 Geologic l Core Anal 			3. DST Re 7 Other:	eport 4. Direct	ional Survey	
34. I herel	by certify that	the foregoi	Elect	ronic Subm	ission #149	548 Verified	by the BLI	M Well Ir	om all available nformation Sy to the Vernal	e records (see attached instructive)	ctions):	
Name	(please print)	CARA MA	HLER				Tit	le <u>AUTH</u>	ORIZED REI	PRESENTATIVE		
Signat	ture	(Electroni	c Submiss	lon)			Da	te <u>09/10/</u>	2012			
Title 18 U	J.S.C. Section	1001 and T	itle 43 U.S.	C. Section 1	212, make i	t a crime for	any person	knowingl	y and willfully	to make to any department o	r agency	

Operation Summary Report

Well: BONANZA 1023-6K1CS PURPLE	Spud Date: 3/27/2012								
Project: UTAH-UINTAH	Site: BONANZA 1023-6K PAD	Rig Name No: XTC 12/12, CAPSTAR 310/310							
Event: DRILLING	Start Date: 12/8/2011	End Date: 6/5/2012							

UM: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1915/W/0/1732/0/0

ctive Datum: Revel)	KB @5,234.00usft (above Mean S	Sea	UVVI: NE	UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1915/W/0/1732/0/0								
Date	Time	Duration	Phase	Code	Sub	MD From Operation							
	Start-End	(hr)			Code		(usft)						
3/26/2012	20:00 - 0:00	4.00	DRLSUR	01	С	Р	SKID RIG, RIG UP. WELD ON ROT HEAD, RIG UP BLOWIE LINE. PU BHA, AIR OUT PUMPS						
3/27/2012	0:00 - 1:00	1.00	DRLSUR	01	В	P	PU 12.25" BHA						
	1:00 - 2:30	1.50	DRLSUR	02	D	Р	SPUD DRLG 12.25" SURFACE HOLE F/49' T/ 210' ROP=100' FPH WOB= 24-28K RPM= 55/105 SPP= 950/750 GPM= 620 TRQ= 2800/1700 PU/SO/RT= 31/25/28						
	2:30 - 3:00	0.50	DRLSUR	05	С	P	CIRCULATE BEFORE PULL OUT OF HOLE						
				06	A	, P	PULL OUT OF HOLE, LAY DOWN 12.25" BIT						
	3:00 - 3:30 3:30 - 4:30	0.50 1.00	DRLSUR DRLSUR	06	A	P	PU 11,00" BIT AND DIRECTIONAL TOOLS, TRIP IN						
	4:30 - 16:30 16:30 - 17:00	12.00 0.50	DRLSUR	02 07	D	P	HOLE DRLG 11.00" SURFACE HOLE F/210' T/ 1405' ROP=100' FPH WOB= 24-28K RPM= 55/105 SPP= 900/700 GPM= 500 TRQ= 2800/1700 PU/SO/RT= 105/78/87 0600, NOTICED WE WERE KICKED OFF 120 DEGREES IN WRONG DIRECTION DUE TO TOOL MAKE UP PROBLEM (S). CORRECTED RIG SERVICE						
	17:00 - 0:00	7.00	DRLSUR	02	D	Р	DRLG 11.00" SURFACE HOLE F/1404' T/1920' ROP=100' FPH WOB= 24-28K RPM= 55/105 SPP= 900/700 GPM= 480 TRQ= 2800/1700 PU/SO/RT= 105/79/89						
3/28/2012	0:00 - 8:00	8.00	DRLSUR	02	D	Р	DRLG 11.00" SURFACE HOLE F/1920'-2487' ROP=567' @ 71 FPH WOB= 24-28K RPM= 55/105 SPP= 1300/900 GPM= 595 TRQ= 2800/1700 PU/SO/RT= 118/79/105 LAST SURVEY @ 2432'=14.47 INC. & 60.98 AZ 3' LEFT & 1' HIGH						
	8:00 - 9:00	1.00	DRLSUR	05	С	Р	CIRC & COND HOLE FOR 8.625" CSG						
	9:00 - 12:30	3.50	DRLSUR	06	Α	P	LAY DOWN DRILL STRING & DIR. TOOLS						
	12:30 - 15:00	2.50	CSG	12	С	Р	PJSM /// RUN 55 JT'S, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2447' & BAFFLE @ 2401'						

Operation Summary Report

 Well: BONANZA 1023-6K1CS PURPLE
 Spud Date: 3/27/2012

 Project: UTAH-UINTAH
 Site: BONANZA 1023-6K PAD
 Rig Name No: XTC 12/12, CAPSTAR 310/310

 Event: DRILLING
 Start Date: 12/8/2011
 End Date: 6/5/2012

Active Datum: RKB @5,234.00usft (above Mean Sea

UM: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1915/W/0/1732/0/0

ctive Datum: RKB @5,234.00usft (above Mean Sea evel)						UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1915/W/0/1/32/0/0							
Date		Time	Duration	Phase	Code	Sub	P/U	MD From	Operation				
	1000	art-End	(hr)			Code		(usft)					
		- 15:30 - 16:30	0.50 1.00	CSG CSG	05 12	F E	P P		CIRC 8.625" SURFACE CSG @ 2447' PJSM W/ PRO PETRO CMT CREW /// TEST LINES TO 2000 PSI /// PUMP 150 BBL'S WATER FOLLOWED				
									BY 20 BBL'S GEL WATER FLUSH /// TAIL = 300SX CLASS G CMT @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 150 BBLS WATER /// PLUG DN @ 16:40 03/28/2012 /// BUMP PLUG W/ 500 PSI /// FINAL LIFT = 200 PSI /// CHECK FLOATS- HELD W/ .5 BBL'S BACK. NO CMT TO SURFACE				
	16:30	- 17:00	0.50	CSG	12	E	Р		RUN 200' OF 1" & PUMP FIRST TOP OUT W/ 175 SX CLASS G CMT @ 15.8 WT & 1.15 YIELD + 4% CACL2 /// NO CMT TO SURFACE				
	17:00	- 18:00	1,00	CSG	14	Α	P		CUT OFF CONDUCTOR & HANG 8.625" SURFACE CSG				
	18:00	- 19:00	1.00	CSG	12	E	Р		PUMP SECOND TOP OUT W/ 175 SX CLASS G CMT @ 15.8 WT & 1.15 YIELD + 4% CACL2 /// NO CMT TO SURFACE				
	19:00	- 20:00	1.00	RDMO	01	Ε	P		CLEAN PITS & RIG DN /// RELEASE RIG @ 20:00 03/28/2012 TO THE NBU 921-20C (1 WELL PAD)				
5/30/2012	4:00	- 4:30	0.50	MIRU	01	С	P		PULL CAT WALK FORWARD. INSTALL SKID RAILS. PREPARE RIG FOR SKID AND SKID RIG FORWARD 10'. RESET CATWALK AND INSTALL VIBRATING HOSES. CENTER AND LEVEL RIG OVER HOLE. BREAK DOWN CHOKE LINE TO SKID.				
	4:30	- 6:00	1.50	MIRU	14	Α	Р		NIPPLE UP BOPE. TIGHTEN CAMERON QUICK FLANGE. ADD 22' EXTENSION TO CHOKE LINE. ADD EXTENSION TO FLOW LINE.				
	6:00	- 11:30	5.50	MIRU	15	A	Р		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. TEST ANNULLAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. TESTING CASING TO 1500 PSI FOR 30 MINUTES.				
									DONNA KENNY FROM BLM OBSERVING B.O.P. TEST.				
	11:30	- 12:00	0.50	MIRU	15	Α	P		INSTALL WEAR BUSHING WITH 8" ID WITH EVEN WEAR.				
	12:00	- 13:30	1.50	MIRU	06	Α	Р		P/U WEATHERFORD 1.83 BH .16 RPG MOTOR (SN 625-41199). MADE UP SMITH MDI 616 BIT W/ 6-15'S (SN JF8118).				
									SCRIBED MOTOR. P/U DOUBLE PIN, NON MAG TOOL CARRIER AND EM SUB. INSTALL EM TOOL. P/U MONEL AND CROSSOVER TO HWDP. TRIP IN HOLE WITH HEAVY WEIGHT DRILL PIPE @ 950'				
	13:30	- 15:00	1.50	MIRU	06	D	;P		INSTALL NEW ROTATING HEAD RUBBER. TRIP IN HOLE WITH DRILL PIPE. TAG CEMENT 2400'.				

Operation Summary Report

Well: BONANZA 1023-6K1CS PURI	LE					Spud Date: 3/27/2012				
Project: UTAH-UINTAH		Site: BOI	NANZA 10	23-6K P	AD	Rig Name No: XTC 12/12, CAPSTAR 310/310				
Event: DRILLING		Start Dat	e: 12/8/20)11		End Date: 6/5/2012				
Active Datum: RKB @5,234.00usft (Level)	above Mean Se	a	UWI: NI	UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1915/W/0/1732/0/0						
Date Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From Operation (usft)				
15:00 - 15:30	0.50	MIRU	07	A	P	SERVICE RIG. SERVICE TOP DRIVE. SERVICE CROWN, PERFORMED PRESPUD SAFETY INSPECTION. PLACED GRATINGS OVER EXPOSED CELLARS. CHANGED OIL IN TOP DRIVE.				
15:30 - 17:30	2.00	MIRU	08	Α	Z	TROUBLE SHOOT TOP DRIVE GREASED AND SERVICED TOP DRIVE, CONCLUDED THAT THE TRACTION MOTOR MAY BE GOING OUT, WILL HAVE NEW TRACTION MOTOR ON LOCATION TOMORROW INCASE IT DOES FAIL DURRING THIS WELL.				
17:30 - 18:30	1.00	DRLPRO	02	F	P	REVEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER. VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION. REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVEW OF WELLBORE, PRIOR TO SPUD. SPUD 05/30/2012 18:00 DRILL CEMENT AND FLOAT EQUIPMENT 2349'- 2447'. SURFACE CASING SHOE @ 2447'. DRILLED WITH 15K ON BIT AND 45 RPM. @ 450 GPM.				
18:30 - 0:00	5.50	DRLPRC	02	D	P	DRILL SLIDE 2493'-3209' (716', 130'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1825/1500. DIFFERENTIAL 325. TORQUE HIGH/LOW 9200/7600. OFF BOTTOM TORQUE 3400 STRING WEIGHT UP/DOWN/ROT 100/80/90. DRAG 10K. DRILL OUT OF SHOE @ 13.56 DEGREES DROPING ANGLE @ 2' SOUTH AND 24' WEST OF LINE @ 3209'. SLIDE 40' AT 80'/HR. SLIDE 7% ROTATE 93%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.4 VIS 26.) USED 38 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 20 BBLS DRILL WATER INTO FORMATION. (LOSING 3.6 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 60 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE. (BOP DRILL 45 SEC)				

W. II. DONANZA 4000 OKACO DUDDI E	Land Total		<u> </u>	19-05-67140	Spud Date: 3/27/2012		
Well: BONANZA 1023-6K1CS PURPLE	Cito: BOA	IANZA 10	23 6K D	AD.	Rig Name No: XTC 12/12, CAPSTAR 310/310		
Project: UTAH-UINTAH				T	End Date: 6/5/2012		
Event: DRILLING		e: 12/8/2011 UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/19					
Active Datum: RKB @5,234.00usft (above Mean Sea Level)	a	OVVI. INE	23VV/0/1	UISIZSIEN	3000/201F 101/31 18 10/44/0/17 32/0/0		
Date Time Duration	Phase	Code	Sub Code	P/U	MD From Operation (usft)		
5/31/2012 0:00 - 5:30 5.50 5:30 - 6:00 0.50	DRLPRO DRLPRO	07 07 02	A D	P P	DRILL SLIDE 3209-3841 (632', 114', HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1841/1460. DIFFERENTIAL 381. TORQUE HIGH/LOW 9200/7600. OFF BOTTOM TORQUE 3400 STRING WEIGHT UP/DOWN/ROT 100/80/90. DRAG 10K. CURRENTLY @ 1.56 DEGREES DROPING ANGLE @ 10' SOUTH AND 13' EAST OF LINE @ 3841'. SLIDE 56' AT 80'/HR. SLIDE 8% ROTATE 92%. RUNNING 2 CENTRIFUGES AND DE WATERING. (WT 8.5 VIS 27.) USED 34 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 20 BBLS DRILL WATER INTO FORMATION. (LOSING 3.6 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 60 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE. (BOP DRILL 45 SEC) SERVICED TOP DRIVE, INSPECT BRAKES, EMERGANCY STOP 1 SECOND REACTION TIME. DRILL SLIDE 3841'-4081' (240', 96',/HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1841/1460. DIFFERENTIAL 381. TORQUE HIGH/LOW 9200/7600. OFF BOTTOM TORQUE 3400 STRING WEIGHT UP/DOWN/ROT 100/80/90. DRAG 10K. CURRENTLY HOLDING ANGLE @ 1.56 VERTICAL AT 3985' @ 16' SOUTH AND 16' EAST OF LINE @ 4081'. SLIDE 25' AT 80'/HR. SLIDE 2% ROTATE 98%. RUNNING 2 CENTRIFUGES AND DE WATERING. (WT 8.5 VIS 27.) USED 13 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 10 BBLS DRILL WATER FOR HOLE VOLUME. LOSING 4 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER FOR MAK		

Operation Summary Report

Well: BONANZA	1023-6F	(1CS PURPL	.E					Spud Date: 3/2	27/2012	
Project: UTAH-UI	INTAH			Site: BON	IANZA 10	23-6K PA	٩D		Rig Name No: XTC 12/12, CAPSTAR 310/310	
Event: DRILLING	i			Start Date	e: 12/8/20	111			End Date: 6/5/2012	
Active Datum: Rk Level)	(B @5,2	34.00usft (al	oove Mean S	ea	UWI: NE	E/SW/0/1	0/S/23/E/	E/6/0/0/26/PM/S/1915/W/0/1732/0/0		
Date		Time art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
	8:30	- 9:00	0.50	DRLPRO	08	Α	Z		CIRCULATE BOTTOMS UP, NO FLOW ON FLOW CHECK, HOLE FULL OF DIRTY DRILLING WATER.	
	9:00	- 10:00	1.00	DRLPRO	08	Α	Z		TRIP OUT TO THE SURFACE CASING SHOE MONITORING WELL, WELL TAKING PROPER FILL, NO FLOW ON FLOW CHECKS.	
	10:00	- 16:00	6.00	DRLPRO	08	Α	Z		REPLACING TRACTION MOTOR, FUNCTION TEST NEW TRACTION MOTOR, EVERYTHING IS WORKING PROPERLY. THERE IS STILL SEAMS TO BE A PROBLEM SOUND COMMING FROM THE TOP DRIVE, WE WILL TRY A FEW MINOR REPAIRS DURRING WELL,	
									TOOL PUSHER THINKING THEY MIGHT REPLACE ENTIRE TOP DRIVE AFTER RIG RELEASE OF CURRENT WELL.	
									MONITORING WELL DURRING RIG REPAIR NO LOSSES OR GAINS WER OBSERVED.	
		- 16:30	0.50	DRLPRO	07	Α	P		RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.	
		- 17:30	1.00	DRLPRO	06	H	Z		TRIPPING BACK TO BOTTOM	
	17:30	- 0:00	6.50	DRLPRO	02	D	P		DRILL SLIDE 4081'-4751' (670', 103'./HR) WEIGHT ON BIT 18-22K. AVERAGE WEIGHT ON BIT 22K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1841/1460. DIFFERENTIAL 381. TORQUE HIGH/LOW 9200/7600. OFF BOTTOM TORQUE 3400 STRING WEIGHT UP/DOWN/ROT 100/80/90. DRAG 10K. CURRENTLY HOLDING ANGLE @ 2.88 VERTICAL AT 3985' @ 5' SOUTH AND 10' EAST OF LINE @ 4751'. SLIDE 95' AT 80'/HR. SLIDE 10% ROTATE 90%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.5 VIS 27.) USED 36 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION. (LOSING 4.6 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 60 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.	

Vell: BONANZA	1023-6K1CS PURPLI	E					Spud Date: 3/27/2012
Project: UTAH-U			Site: BOI	NANZA 10	23-6K P	AD	Rig Name No: XTC 12/12, CAPSTAR 310/310
vent: DRILLIN	G		Start Dat	e: 12/8/20	111		End Date: 6/5/2012
ctive Datum: R	ea	UWI: NE	E/SW/0/1	0/S/23/E	/6/0/0/26/PM/S/1915/W/0/1732/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From Operation (usft)
6/1/2012	0:00 - 5:30 5:30 - 6:00 6:00 - 17:30	0.50 11.50	DRLPRO DRLPRO DRLPRO	02	D A D	P P	DRILL SLIDE 4751-5474' (723', 131',/HR) WEIGHT ON BIT 20-25K. AVERAGE WEIGHT ON BIT 23K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 1999/1679. DIFFERENTIAL 320. TORQUE HIGH/LOW 95937/255. OFF BOTTOM TORQUE 6573 STRING WEIGHT UP/DOWN/ROT 140/90/114. DRAG 26K. CURRENTLY HOLDING ANGLE @ 2.88 VERTICAL AT 3985' @ 19' NORTH AND 4' WEST OF LINE @ 5474'. SLIDE 09' ROTATE 100%. RUNNING 2 CENTRIFUGES AND DE WATERING. (WT 8.5 VIS 27.) USED 39 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION. (LOSING 5.4 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 80 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 80 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE. SERVICED TOP DRIVE, INSPECT BRAKES, EMERGANCY STOP 1 SECOND REACTION TIME. DRILL SLIDE 5474-6670' (1196', 104',HR) WEIGHT ON BIT 20-25K. AVERAGE WEIGHT ON BIT 23K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2094/1766. DIFFERENTIAL 328. TORQUE 7193 STRING WEIGHT UP/DOWN/ROT 160/100/122. DRAG 38K. CURRENTLY HOLDING ANGLE @ 1.69 VERTICAL AT 3985' @ 4' NORTH AND 1' WEST OF LINE @ 6670'. SLIDE 106' @ 75'/HR SLIDE 8% ROTATE 92%. RUNNING 2 CENTRIFUGES AND DE WATERING. (WT 8.6 VIS 27.) USED 64 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 100 BBLS DRILL WATER FOR HOLE VOLUME. LOSN 107 BBLS WEEP EVERY 200'. (USE 100 BBLS LIGHT DRILL WATER FOR MOLE VIS WEEPS TO HELP CONTROL LOSSES.

					s ROCI		GION ry Report							
Well: BONANZA 1023	3-6K1CS PURPLI	<u> </u>	<u> </u>	<u>, 1 4 4 7 6 </u>	Spud Date: 3/27/2012									
Project: UTAH-UINTAH Site: BO			Site: BON	IANZA 10	23-6K PA	\D		Rig Name No: XTC 12/12, CAPSTAR 310/310						
			Start Date	e: 12/8/20	111			End Date: 6/5/2012						
			a	UWI: NI	E/SW/0/10)/S/23/E/6	6/0/0/26/PM/S/191	5/W/0/1732/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation						
	:30 - 18:00 :00 - 0:00	0.50	DRLPRO	07	A D	P		RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP. DRILL SLIDE 6670'-7292' (622', 103',/HR) WEIGHT ON BIT 20-25K. AVERAGE WEIGHT ON BIT 23K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2094/1766. DIFFERENTIAL 328. TORQUE HIGH/LOW 9392/8926. OFF BOTTOM TORQUE 7193 STRING WEIGHT UP/DOWN/ROT 160/100/122. DRAG 38K. CURRENTLY HOLDING ANGLE @ 1.69 VERTICAL AT 3985' @ 5' NORTH AND 6' EAST OF LINE @ 7292'. SLIDE 16' @ 75/HR SLIDE 2% ROTATE 98%. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.6 VIS 27.) USED 33 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 60 BBLS DRILL WATER INTO FORMATION. (LOSING 10 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 100 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 60 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE.						

Well: BONANZA 1023-6K1CS PURPLE							Spud Date: 3/2	/2012		
Project: UTAH-UINTAH Site: BON Event: DRILLING Start Date			ANZA 1	023-6K P	AD		Rig Name No: XTC 12/12, CAPSTAR 310/310			
			: 12/8/20	011			End Date: 6/5/2012			
Active Datum: RKB @5,234,00usft (above Mean Sea Level)					E/SW/0/1	0/S/23/E/6/	0/0/26/PM/S/19	15/W/0/1732/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
6/2/2012	0:00 - 5:30	5.50	DRLPRO	02	D	P		DRILL SLIDE 7292'-7620' (328', 59'./HR) WEIGHT ON BIT 20-25K. AVERAGE WEIGHT ON BIT 23K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2094/1766. DIFFERENTIAL 328. TORQUE HIGH/LOW 9392/8926. OFF BOTTOM TORQUE 7193 STRING WEIGHT UP/DOWN/ROT 160/100/122. DRAG 38K. CURRENTLY HOLDING ANGLE @ 1.69 VERTICAL AT 3985' @ 3' SOUTH AND 11' EAST OF LINE @ 7620'. SLIDE 86' @ 50'/HR SLIDE 58.57% ROTATE 41.43% OF TIME. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.6 VIS 27.) USED 17 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 70 BBLS DRILL WATER INTO FORMATION. (LOSING 11 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 100 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 60 BBLS OF FRESH WATER FOR MAKE UP) NO FLARE. CUT BOTH CENTRAFUGES BACK TO CONVENTIONAL DID A LIGHT MUD UP @ 7500',		
	5:30 - 6:00	0.50	DRLPRO	07	Α	P		ADDED GELL TO THE SYSTEM FOR A 30 VIS. CONTINUED MAKING SWEEPS TO CLEAN THE HOLE. SERVICED TOP DRIVE, INSPECT BRAKES, EMERGANCY STOP 1 SECOND REACTION TIME.		

	1023-6K1CS PURPLE	<u> </u>					Spud Date: 3/27	
Project: UTAH-Uli	NTAH 		Site: BON	IANZA 10	023-6K P/	AD		Rig Name No: XTC 12/12, CAPSTAR 310/310
Event: DRILLING			Start Date					End Date: 6/5/2012
Active Datum: RK _evel)	B @5,234.00usft (ab	ove Mean S	ea	UWI: NI	E/SW/0/1		/0/0/26/PM/S/191	
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILL SLIDE 7620'-8048' (428', 37'./HR) WEIGHT ON BIT 20-25K. AVERAGE WEIGHT ON BIT 23K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2501/2177. DIFFERENTIAL 324. TORQUE HIGH/LOW 11013/8731. OFF BOTTOM TORQUE 8500. STRING WEIGHT UP/DOWN/ROT 161/114/134. DRAG 27K. CURRENTLY HOLDING ANGLE @ 0.13 VERTICAL AT 3985' @ 8' SOUTH AND 14' EAST OF LINE @ 8048'. SLIDE 136' @ 30'/HR SLIDE 63% ROTATE 37% OF TIME. RUNNING 2 CENTRIFUGES AND DE WATERING.(WT 8.6 VIS 27.) USED 17 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 70 BBLS DRILL WATER INTO FORMATION. (LOSING 11 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 100 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 60 BBLS OF FRESH WATER FOR MAKE UP) 15' FLAIR FOR 1 HOUR DURRING CONNECTIONS-16,783 SCF.
	17:30 - 18:00	0.50	DRLPRO	07	Α	Р		RIG SERVICE, SERVICE TOP DRIVE, CHECK GENERATORS, SERVICE CROWN, CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.

발전되는 경우 그 보고 있다는데 그 경기들은 전기를 하는데 되었다.				KIES R								
		Opera	eration Summary Report									
Well: BONANZA 1023-6K1CS PURPLE	T	Spud Date: 3/27/2012										
Project: UTAH-UINTAH	Site: BON	ANZA 10	023-6K F	PAD		Rig Name No: XTC 12/12, CAPSTAR 310/310						
Event: DRILLING Start Da						End Date: 6/5/2012						
Active Datum: RKB @5,234.00usft (above Mean Sea Level)	UWI: N	E/SW/0/	10/S/23/E/	6/0/0/26/PM/S/191	5/W/0/1732/0/0							
Date Time Duration Start-End (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation						
	DRLPRO	02	D	P		DRILL SLIDE 8048'-8348' (300', 50',/HR) WEIGHT ON BIT 20-25K. AVERAGE WEIGHT ON BIT 23K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2501/2177. DIFFERENTIAL 324. TORQUE HIGH/LOW 11013/8731. OFF BOTTOM TORQUE 8500. STRING WEIGHT UP/DOWN/ROT 161/114/134. DRAG 27K. CURRENTLY HOLDING ANGLE @ 0.13 VERTICAL AT 3985' @ 8' SOUTH AND 12' EAST OF LINE @ 8348'. SLIDE 76' @ 30'/HR SLIDE 63% ROTATE 37% OF TIME. RUNNING 2 CENTRIFUGES CONVENTIONAL.(WT 8.6 VIS 30.) USED 16 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 50 BBLS DRILL WATER INTO FORMATION. (LOSING 8.3 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 100 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) 15' FLAIR FOR 1 HOUR DURRING CONNECTIONS-16,783 SCF.						

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				Opera	ation S	umma	ry Report	
	1023-6K1CS PURPL	E	04	(AA)7.	000 011 5	AD.	Spud Date: 3/27	
Project: UTAH-U			Site: BON			4D		Rig Name No: XTC 12/12, CAPSTAR 310/310
Event: DRILLING		<u> </u>	Start Date	,		0/0/00 /=:	10101001001001001	End Date: 6/5/2012
Active Datum: RKB @5,234.00usft (above Mean Sea Level)				UWI: N	E/SVV/0/1	0/S/23/E/6	3/0/0/26/PM/S/191	15/W/0/1/32/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/3/2012	0:00 - 4:30	4.50	DRLPRO	02	D	P		DRILL SLIDE 8348'-8640' (292', 64'./HR) TD@ 06/03/2012 04:30 WEIGHT ON BIT 20-25K. AVERAGE WEIGHT ON BIT 23K. ROTARY RPM 65. MUD MOTOR RPM 82. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. ON/OFF PSI 2773/2551. DIFFERENTIAL 222. TORQUE HIGH/LOW 11208/9617. OFF BOTTOM TORQUE 8700. STRING WEIGHT UP/DOWN/ROT 200/120/144. DRAG 56K. CURRENTLY HOLDING ANGLE @ 2.25 VERTICAL AT 3985' @ 14' SOUTH AND 16' EAST OF LINE @ TD 8640'. SLIDE 76' @ 30'/HR SLIDE 63% ROTATE 37% OF TIME. RUNNING 2 CENTRIFUGES CONVENTIONAL.(WT 8.6 VIS 30.) USED 15 BBLS DRILL WATER FOR HOLE VOLUME. LOSS 30 BBLS DRILL WATER INTO FORMATION. (LOSING 8.3 BBLS HR) PUMP 50 VIS GEL AND 5% SAWDUST SWEEPS TO HELP CONTROL LOSSES. PUMP 15 BBLS SWEEP EVERY 200'. (USE 30 BBLS LIGHT DRILL WATER WITH 32 VIS AS BASE FOR BUILDING SWEEPS.) (ADD 30 BBLS OF FRESH WATER FOR MAKE UP) 20' FLAIR FOR 2 HOUR DURRING CONNECTIONS-61,588 SCF.
	4:30 - 7:30 7:30 - 8:00	3.00	EVALPR	05	A	P		DISPLACE IN 700 BBLS OF HEAVY MUD INTO SYSTEM @ 8400'. DISPLACE OUT 780 BBLS OF 8.5 DRILL WATER. PUMP LCM SWEEPS TO HELP CONTAIN LOSSES. MUD WT IN 11.3/ VIS 37. MUD WT OUT 11.1/ VIS 40. CIRCULATE AND CONDITION MUD. CIRCULATE BOTTOMS UP. RETURNS CLEAN COMING OVER SHAKERS. MUD WT IN 10.4 VIS 37 MUD WT OUT 10.2 VIS 40. WORK PIPE UP AND DOWN EVERY 5 MINUTES WHILE CIRCULATING. NO LOSSES. PUMPED LCM SWEEP AROUND TO CLEAN HOLE. BUILD 40 BBL 12.5# DRY JOB AND HOLD. RIG SERVICE. SERVICE TOP DRIVE. CHECK GENERATORS. SERVICE CROWN. CHECK BRAKE ADJUSTMENT AND TEST EMERGENCY STOP.

9/4/2012

Operation Summary Report

Well: BONANZA	4 1023-6K1CS PURP	LE					Spud Date: 3/2	
Project: UTAH-I	HATMIL		Site: BON	NANZA 10	23-6K PA	AD		Rig Name No: XTC 12/12, CAPSTAR 310/310
Event: DRILLIN	G		Start Dat	e: 12/8/20	11			End Date: 6/5/2012
Active Datum: F Level)	RKB @5,234.00usft (a	bove Mean S	ea	UWI: NI	E/SW/0/10	D/S/23/E/6	/0/0/26/PM/S/19	15/W/0/1732/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	8:00 - 15:00	7.00	EVALPR	06	E	Р		TRIP OUT OF HOLE FOR CASING RUN, PUMP AND ROTATE FOR 800' . HOLE PULLING SLICK. HOLE TAKING PROPER FLUID ON TRIP. NO FLOW ON FLOW CHECKS.
	45:00 40.00	4.00	000000	40	•	В		PULL ROTATING RUBBER, PULL HEAVY WEIGHT DRILL PIPE, LAY DOWN DIRECTIONAL TOOLS, BREAK BIT, LAY DOWN MOTOR.
	15:00 - 16:00	1.00	CSGPRO	12	A	Р		PULL WEAR BUSHING. HOLD SAFETY MEETING WITH KIMZEY CASING AND TSI HAND. REMOVE DRILL PIPE ELEVATORS. RIG UP CASING ELEVATORS. RIG UP INTERGRATED CASING TONGES.
	16:00 - 19:00	3.00	CSGPRO	12	С	P		(INSPECT FLOAT EQUIPMENT) MAKE UP 4.5" K-55 LTC WEATHERFORD FLOAT SHOE ON SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" K-55 FLOAT COLLAR W/ THREAD LOCK ON TOP OF SHOE JOINT.
								RUN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY THIRD JOINT FOR TOTAL OF 15 CENTRALIZERS. BREAK CIRCULATION @ 2400'. NO PROBLEMS WITH FLOAT SHOE OR FLOAT COLLAR.
								RUN A TOTAL OF 86 JOINTS OF 4.5" 11.6# I-80 LTC CASING (3695.36). MAKE UP DQX CROSS OVER JOINT AND RIG UP TORQUE TURN. PERFORM DUMP TEST. RUN A TOTAL 5 JOINTS OF 4.5" 11.6# P-110 DQX CASING.
	19:00 - 21:30	2.50	CSGPRO	22	М	x		HIT A BRIDGE @ 3800' HIT A BRIDGE @ 3800', RIGGED UP WASH DOWN CROSS OVER AND WORKED AT WASHING CASING DOWN. GIANED FULL CIRCULATION WITH NO LOSSES. RUNNING 100 STROKES PER MINUTE WITH 650 PSI WORKING CASING DOWN INTO BRIDGE PRESSURE COMES UP TO 1200 PSI AND BREAKS BACK TO 800 PSI BUT DOES NOT GIVE BACK ANNY STRING WEIGHT
	21:30 - 0:00	2.50	CSGPRO	22	M	x		CAN NOT WASH CASING DOWN PAST BRIDGE. PULL CASING OUT OF HOLE AND LAY IT DOWN PUTTING THREAD PROTECTORS BACK ON CASING.
6/4/2012	0:00 - 2:00	2.00	CSGPRO	22	M	Х		PULL CASING OUT OF HOLE AND LAY IT DOWN PUTTING THREAD PROTECTORS BACK ON CASING.
	2:00 - 12:00	10.00	CSGPRO	06	F	X		INSTALL WEAR BUSHING, PICK UP MUD MOTOR SN (625-41199), MAKE UP BIT SN (224723), RUN HEAVY WEIGHT DRILL PIPE IN THE HOLE, TRIP TO BOTTOM WASHING AND REAMING FROM 3704'-3744', 3890'-3911', 4730'-4860', 5513'-5554', 5901'-5940', 6113'-6200', 6372'-6415',

		US RO	CKIES F	REGION				
		Operation	Summ	ary Report				
Well: BONANZA 1023-6K1CS PURPLE				Spud Date: 3/27/	/2012			
Project: UTAH-UINTAH	Site: BON	IANZA 1023-6K	PAD		Rig Name No: XTC 12/12, CAPSTAR 310/310			
Event: DRILLING	Start Date	e: 12/8/2011			End Date: 6/5/2012			
Active Datum: RKB @5,234.00usft (above Level)	Mean Sea	UWI: NE/SW/0	/10/S/23/E	/6/0/0/26/PM/S/191	5/W/0/1732/0/0			
Date Time Di	uration Phase (hr)	Code Sub	P/U	MD From (usft)	Operation			
12:00 - 13:00 13:00 - 18:00	5.00 EVALPR 0.50 CSGPRO	05 A 06 E	x		CIRCULATE AND CONDITION HOLE FOR CASING RUN, CIRCULATE BOTTOMS UP. RETURNS CLEAN COMING OVER SHAKERS. MUD WEIGHT IN 11.3 VIS 40 MUD WEIGHT OUT 11.0 VIS 42. WORK PIPE UP AND DOWN EVERY 5 MINUTES WHILE CIRCULATING. NO LOSSES, PUMPED LCM SWEEP AROUND TO CLEAN HOLE. BUILD 40 BBL 13.3# DRY JOB AND HOLD. CLEANED CASING THAT WENT IN THE HOLE AND INSPECTED, KICKED OUT 8 JOINTS OF LTC AND NO JOINTS OF DQX. TRIP OUT OF HOLE FOR CASING RUN. PUMP AND ROTATE FOR 200'. HOLE PULLING SLICK. HOLE TAKING PROPER FLUID ON TRIP. NO FLOW ON FLOW CHECKS. PUMP 40 BBLS 13.3# DRY JOB PULL ROTATING RUBBER, PULL HEAVY WEIGHT DRILL PIPE, BREAK BIT, LAY DOWN MOTOR. PULL WEAR BUSHING. HOLD SAFETY MEETING WITH KIMZEY CASING AND TSI HAND. REMOVE DRILL PIPE ELEVATORS. RIG UP CASING ELEVATORS. RIG UP INTERGRATED CASING			
18:30 - 0:00	5.50 CSGPRO	12 C	P		TONGES. (INSPECT FLOAT EQUIPMENT) MAKE UP 4.5" K-55 LTC WEATHERFORD FLOAT SHOE ON SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" K-55 FLOAT COLLAR W/ THREAD LOCK ON TOP OF SHOE JOINT. RUN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY THIRD JOINT FOR TOTAL OF 15 CENTRALIZERS. BREAK CIRCULATION @ 2500'. NO PROBLEMS WITH FLOAT SHOE OR COLLAR. RUN A TOTAL OF 86 JOINTS OF 4.5" 11.6# I-80 LTC CASING (3695.36). MAKE UP DQX CROSS OVER JOINT AND RIG UP TORQUE TURN. PERFORM DUMP TEST. RUN A TOTAL 23 JOINTS OF 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN (5137.35'). (TSI HAND WITNESSED CASING JOB, WILL). FILLED CASING AND CIRCULATED AT 2500' AND 6000'. GOOD CIRCULATION WITH NO LOSSES WAS			

Operation Summary Report

Vell: BONANZA	1023-6K1CS PURP	LE					Spud Date: 3/2	7/2012		
roject: UTAH-l	HATMIL	**	Site: BON	IANZA 10	23-6K P	PAD		Rig Name No: XTC 12/12, CAPSTAR 310/310		
vent: DRILLIN	G		Start Date	e: 12/8/20	11			End Date: 6/5/2012		
ctive Datum: R	KB @5,234.00usft (a	above Mean S	ea	UWI: NE	E/SW/0/1	10/S/23/E/6	6/0/0/26/PM/S/19	015/W/0/1732/0/0		
evel)										
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
6/5/2012	Start-End 0:00 - 2:30	(hr) 2.50	CSGPRO	12	Code	P	(usft)	(INSPECT FLOAT EQUIPMENT) MAKE UP 4.5" K-55 LTC WEATHERFORD FLOAT SHOE ON SHOE JOINT WITH THREAD LOCK. MAKE UP 4.5" K-55 FLOAT COLLAR W/ THREAD LOCK ON TOP OF SHOE JOINT. RUN CENTRALIZERS ON FIRST 3 JOINTS AND EVERY THIRD JOINT FOR TOTAL OF 15 CENTRALIZERS. BREAK CIRCULATION @ 2500'. NO PROBLEMS WITH FLOAT SHOE OR COLLAR. RUN A TOTAL OF 86 JOINTS OF 4.5" 11.6# I-80 LTC CASING (3695.36). MAKE UP DOX CROSS OVER JOINT AND RIG UP TORQUE TURN. PERFORM DUMP TEST. RUN A TOTAL 112 JOINTS OF 4.5" 11.6# I-80 DQX CSG WITH TORQUE TURN (5137.35'). (TSI HAND WITNESSED CASING JOB, WILL). FILLED CASING AND CIRCULATED AT 2500' AND 6000'. GOOD CIRCULATION WITH NO LOSSES WAS ESTABLISHED. WASH DOWN LAST JOINT AND LANDING JOINT. 10' FILL ON BOTTOM. LANDED CASING ON CAMERON SLOTTED MANDREL WITH LANDING JOINT. 1 BAD JOINT DQX CHANGED OUT FOR DQX JOINT IN STOCK PILE. TOTAL OF 86 JTS OF 4.5" 11.6# I-80 LTC (3647.36') TOTAL 112 JTS OF 4.5" 11.6# I-80 DQX CSG (4890.01') LAND FLOAT SHOE @ 8627.66' KB LAND TOP OF FLOAT COLLAR @ 8582.49' KB. LAND TOP OF MESA MARKER JT @ 6455.84 KB. LAND TOP DQX TO LTC CROSS OVER JT @		
	2:30 - 3:30	1.00	CSGPRO	05	D	Р		4958.90' KB. CIRCULATE DOWN CASING WITH RIG. GOOD CIRCULATION WITH NO LOSSES @ 360 GALLONS PER MINUTE. 4' FLARE FOR 25 MINUTES ON BOTTOMS UP 258 SCF. MUD WT 11.3 VIS 43, RIG DOWN KIMZEY CASING. HOLD SAFETY MEETING WITH BAKER HUGHES CEMENTERS.		
	3:30 - 4:30	1.00	CSGPRO	21	D	Z		WAITING ON CEMENT PUMP TRUCK.		

Vell: BONANZ/	4 1023-6K1CS PURP	LE					Spud Date: 3/2	7/2012		
Project: UTAH-	UINTAH		Site: BO	NANZA 10	023-6K P/	AD		Rig Name No: XTC 12/12, CAPSTAR 310/310		
vent: DRILLIN	G		Start Dat	e: 12/8/20	011			End Date: 6/5/2012		
ctive Datum: F	RKB @5,234.00usft (a	above Mean S	ea	UWI: NI	E/SW/0/1	D/S/23/E/6	/0/0/26/PM/S/19	015/W/0/1732/0/0		
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
	4:30 - 7:30	3.00	CSGPRO			Р		PRESSURE TEST LINES TO 5000 PSI.		
								PUMP 25 BBLS OF FRESH WATER. PUMP 165 BBLS (410 SX) OF 12.0# 2.26 YIELD 12.48 GAL/SK OF LEAD CEMENT. PUMP 219 BBLS (940SX) OF 14.3# 1.31 YIELD 5.91 GAL/SK POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES, DROP TOP PLUG		
								DISPLACE WITH 132.2 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. FULL RETURNS THROUGH OUT DIPSLACEMENT. RETURNED WITH 20 BBLS OF WATER AND NO CEMENT TO SURFACE.		
								LIFT PRESSURE OF 2220 PSI. BUMP PLUG WITH 2800 PSI. PRESSURE HELD 5 MINUTES. FLOAT HELD. FLOW BACK 1.5 BBLS. ESTIMATED TOP OF CEMENT FOR LEAD 15'.		
								ESTIMATED TOP OF CEMENT FOR TAIL 3700'.		
	7:30 - 8:00	0.50	RDMO	14	Α	P		STORED 780 BBLS OF 11.3# MUD. UNSCREW LANDING JT. RUN IN WITH PACK OFF. TURN IN LANDING DOGS. UNSCREW FROM PACK OFF. LAYDOWN LANDING JT. UNDO FLOW LINE. NIPPLE DOWN BOPE. TAKE OFF WELL HEAD ADAPTER AND SEND IN WITH CAMERON HAND. UNDO CHOKE LINE. P/U STACK. AND COVER WELL.		
								RELEASE RIG 06/05/2012 08:00		

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-6K1CS PURPLE	Wellbore No.	OH						
Well Name	BONANZA 1023-6K1CS	Wellbore Name	BONANZA 1023-6K1CS						
Report No.	1	Report Date	8/9/2012						
Project	UTAH-UINTAH	Site	BONANZA 1023-6K PAD						
Rig Name/No.		Event	COMPLETION						
Start Date	8/9/2012	End Date	8/20/2012						
Spud Date	3/27/2012	Active Datum	RKB @5,234.00usft (above Mean Sea Level)						
UWI	NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1915/W/0/1732/0	NE/SW/0/10/S/23/E/6/0/0/26/PW/S/1915/W/0/1732/0/0							

1.3 General

Contractor	ì	Job Method		Supervisor	
Perforated Assembly		Conveyed Method	•		

1.4 Initial Conditions

1.5 Summary Gross Interval

Fluid Type		Fluid Density	Gross interval	6,248.0 (usft)-8,438.0 (usf	Start Date/Time	8/13/2012 12:00AM
Surface Press		Estimate Res Press	No. of Intervals	35	End Date/Time	8/13/2012 12:00AM
TVD Fluid Top		Fluid Head	Total Shots	168	Net Perforation Interval	45.00 (usft)
Hydrostatic Press		Press Difference	Avg Shot Density	3.73 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL				Final Press Date	

2 Intervals

2.1 Perforated Interval

Date Formation/ CCL@ CCL-T Reservoir (usft) S (usft)	MD Top (usft)	(usft) E		Misfires/ Diamete Carr Type Add. Shot r (in)	/Stage No Carr F Size (in)	hasing (Charge Desc/Charge Charge Reason Misrun Manufacturer Weight (gram)
8/13/2012 WASATCH/	6,248.0	6,250.0	4.00	0.360 EXP/	3.375	90.00	23.00 PRODUCTIO
12:00AM							N

 September 04, 2012 at 10:47 am
 1
 OpenWells

2.1 Perforated Interval (Continued)

Date	Formation/ CCL@	CCL-T MD Top	MD Base	Shot	Misfires/ Diamete	Carr Type /Stage No	Carr	Phasing	Charge Desc/Charge	Charge	Reason	Misrun
	Reservoir (usft)	S (usft) (usft)	(usft)	Density (shot/ft)	Add. Shot (in)		Size (in)	(9)	Manufacturer	Weight (gram)		100
	WASATCH/	6,288.0	6,290.0	4.00	0.360	EXP/	3.375	90.00	<u></u>		PRODUCTIO	
12:00AM	WASATCH/	6 376 6	6,378.0	4.00	0.360	EVD/	3.375	90.00		22.00	N PRODUCTIO	
12:00AM	WASATCH/	6,376.0	0,376.0	4.00	, 0.360	EAF	3.3/3	90.00		23.00	N	:
8/13/2012 12:00AM	MESAVERDE/	7,072.0	7,073.0	4.00	0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,138.0	7,140.0	4.00	0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,175.0	7,176.0	4.00	0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,198.0	7,200.0	4.00	0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,267.0	7,268.0	4.00	, 0.360	EXP/	3.375	90.00		i	PRODUCTIO N	
12:00AM	MESAVERDE/	7,394.0	7,396.0	4.00	0.360		3.375	90.00		t 	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,422.0	7,423.0	4.00	0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,435.0	7,437.0	4.00	0.360	EXP/	3.375	90.00			PRODUCTIO N	
12:00AM	MESAVERDE/	7,475.0	7,476.0	3.00	0.360	EXP/	3.375	120.00			PRODUCTIO N	
12:00AM	MESAVERDE/	7,491.0		3.00	0.360		3.375	120.00	: Yanazarian (j. 1888) (j. 1888) (j. 1888) (j. 1888)		PRODUCTIO N	<u>.</u>
8/13/2012 12:00AM	MESAVERDE/	7,516.0	7,517.0	3.00	0.360		3.375	120.00		1	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,543.0		3.00		EXP/ : :	3.375	120.00			PRODUCTIO N	
12:00AM	MESAVERDE/	7,570.0	!		1	EXP/	3.375	120.00		ļ	PRODUCTIO N	1
8/13/2012 12:00AM	MESAVERDE/	7,653.0		: 		EXP/	3.375	120.00			PRODUCTIO N	
12:00AM	MESAVERDE/	7,687.0	7,688.0			EXP/	3.375	120.00	 		D PRODUCTIO N	<u>.</u>
8/13/2012 12:00AM	MESAVERDE/	7,723.0	7,724.0	3.00	0.360	EXP/	3.375	120.00		£	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,782.0	7,783.0	3.00	0.360	EXP/	3.375	120.00	? - -	1	D PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,805.0	7,806.0	3.00	0.360	EXP/	3.375	120.00	·	23.0	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	7,841.0	7,842.0	3.00	0.360	EXP/	3.375	120.00		23.00	D PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
8/13/2012 12:00AM	MESAVERDE/			7,871.0	7,872.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/			7,887.0	7,888.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/			7,915.0	7,916.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	4		7,962.0	7,963.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	i
8/13/2012 12:00AM	MESAVERDE/			8,010.0	8,011.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/			8,034.0	8,035.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/		i	8,066.0	8,067.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/			8,092.0	8,093.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	:
8/13/2012 12:00AM	MESAVERDE/			8,122.0	8,123.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/			8,165.0	8,166.0	4.00		0.360	EXP/	3.375	90.00		23.0	PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	1		8,232.0	8,234.0	4.00		0.360	EXP/	3.375	90.00		23.0	PRODUCTIO N	1
8/13/2012 12:00AM	MESAVERDE/			8,288.0	8,290.0	4.00		0.360	EXP/	3.375	90.00		23.0	D PRODUCTIO N	
8/13/2012 12:00AM	MESAVERDE/	1		8,436.0	8,438.0	4.00		0.360	EXP/	3.375	90.00		23.0	0 PRODUCTIO N	

3 Plots

Operation Summary Report

Well: BONANZA 1023-6K1CS PURPLE	Sp	ud Date: 3/27/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-6K PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION	Start Date: 8/9/2012	End Date: 8/20/2012

Active Datum: RKB @5,234.00usft (above Mean Sea

UM: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1915/W/0/1732/0/0

Level)	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From Operation (usft)
3/27/2012	- Otali-Cita	1 444		ANTECAUSES.	1 0000		
8/9/2012	14:00 - 16:00	2.00	COMP	33	С	P	FILL SURFACE CSG. MIRU B&C QUICK TEST.
							PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 15 PSI.
							PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 45
							PSI.
							1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST
							88 PSI.
							NO COMMUNICATION OR MIGRATION WITH
							SURFACE CSG
							BLEED OFF PSI. SWIFN
8/10/2012	7:00 - 10:00	3.00	COMP	37		Р	PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE
							SIZE. 90 DEG PHASING. RIH PERF AS PER PERF
							DESIGN. POOH. SWIFW
8/13/2012	7:00 - 7:15	0.25	FRAC	48		P	JSA-SAFETY MEETING

				Opera	tion \$	lumma	ıry Report	
Vell: BONANZA	1023-6K1CS PURPL	E	16341461141 9254	2.528.61			Spud Date: 3/27	/2012
roject: UTAH-L	JINTAH	· · · · · · · · · · · · · · · · · · ·	Site: BO	IANZA 10	23-6K P	AD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE
vent: COMPLE	TION		Start Date	a: 8/0/201	2	T	··	End Date: 8/20/2012
	*************************************	ava Mann Ca		1		0/S/23/E/	6/0/0/26/PM/S/191	
evel)	KB @5,234.00usft (ab	ove Mean Se	ia	0111.11	3011/0/1	0,0,20,2		574151 17 OZIGIO
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 18:00	10.75	FRAC	36	E	P		FRAC STG 1) WHP 1055 PSI, BRK 4987 PSI @ 12
								BPM. ISIP 2324 PSI, FG = 0.71. CALC PERFS OPEN @ 51 BPM @ 4280 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2217 PSI, FG = 0.70, NPI = - 107 PSI. MP 4742 PSI, MR 51.1 BPM, AP 3924 PSI, AR 51 BPM.
								PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.
								PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8196' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.
								FRAC STG 2) WHP 1890 PSI, BRK 3034 PSI @ 9.6 BPM. ISIP 2243 PSI, FG = 0.71. CALC PERFS OPEN @ 51,1 BPM @ 4068 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2302 PSI, FG = 0.72, NPI = 59 PSI. MP 5157 PSI, MR 55 BPM, AP 4215 PSI, AR 53.4 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.
								PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7993' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW.
								FRAC STG 3) WHP = 1751 PSI, BRK 2744 PSI @ 4.3 BPM. ISIP = 1788 PSI, FG = 0.66. CALC PERFS OPEN @ 51.2 BPM @ 3806 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2156 PSI, FG = 0.71, NPI = 368 PSI. MP 4160 PSI, MR 55.1 BPM, AP 3993 PSI, AR 53.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL
								PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7754' P/U PERF AS PER DESIGN. POOH, SWIFN.

Operation Summary Report

Well: BONANZA 1023-6K1CS PURPLE		Spud Date: 3/27/2012
Project: UTAH-UINTAH	Site: BONANZA 1023-6K PAI	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION	Start Date: 8/9/2012	End Date: 8/20/2012

Active Datum: RKB @5,234.00usft (above Mean Sea

UWI: NE/SW/0/10/S/23/E/6/0/0/26/PM/S/1915/W/0/1732/0/0

Level)

Date		Time art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD Fron (usft)	n ga		0	peratio	n .		
8/14/2012	7:30	- 15:00	7.50	FRAC	36	E	P								

FRAC STG 4) WHP = 1311 PSI, BRK 2706 PSI @ 8.5 BPM. ISIP = 1860 PSI, FG = 0.68.

CALC PERFS OPEN @ 51.8 BPM @ 3450 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)
ISIP 1789 PSI, FG = 0.67, NPI = -71 PSI.

MP 3575 PSI, MR 51.8 BPM, AP 3438 PSI, AR 51.7 BPM,
PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR

PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.

PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7465' P/U PERF AS PER DESIGN. POOH, SWIFN.

FRAC STG 5) WHP = 634 PSI, BRK 5779 PSI @ 4.7 BPM. ISIP = 2397 PSI, FG = 0.76. CALC PERFS OPEN @ 52.7 BPM @ 4513 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 1967 PSI, FG = 0.70, NPI = -430 PSI. MP 4390 PSI, MR 53 BPM, AP 3113 PSI, AR 52.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR

PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7230' P/U PERF AS PER DESIGN. POOH, SWIFN.

FRAC STG 6) WHP = 94 PSI, BRK 3766 PSI @ 3.7 BPM. ISIP = 2405 PSI, FG = 0.77.

CALC PERFS OPEN @ 53.1 BPM @ 3671PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)
ISIP 2238 PSI, FG = 0.75, NPI = -167 PSI.
MP 3751 PSI, MR 53.1 BPM, AP 3657 PSI, AR 53 BPM,
PUMPED 30/60 OWATTA SAND. SWI, X-OVER FOR

PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 6408' P/U PERF AS PER DESIGN. POOH, SWIFN.

FRAC STG 7) WHP = 55 PSI, BRK 1769 PSI @ 4.7 BPM. ISIP = 853 PSI, FG = 0.57. CALC PERFS OPEN @ 53 BPM @ 3517 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2051 PSI, FG = 0.76, NPI = 1198 PSI. MP 5670 PSI, MR 53.3 BPM, AP 3452 PSI, AR 53 BPM,

PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.

					Ų	a RUU	NIES KI	EGIUN				
					Opera	ition S	Bumma	ary Report				
Well: BONANZA	1023-6	K1CS PURP	LE	20.6	<u> </u>	2012-2012-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		Spud Date: 3/2	7/2012			
Project: UTAH-U	JINTAH			Site: BON	IANZA 1	023-6K P	AD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3			
Event: COMPLE	TION			Start Date	e: 8/9/201	12			End Date: 8/20/2012			
Active Datum: R Level)	KB @5,2	234.00usft (a	bove Mean S	ea	UWI: N	E/SW/0/1	0/S/23/E/	6/0/0/26/PM/S/19 ⁻	15/W/0/1732/0/0			
Date	s	Time tart-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation			
									KILL PLUG) RIH W/ HALLIBURTON 8K CBP, SET CBP @ 6198', R/D WIRELINE AND FRAC CREW, WELL SHUT IN,			
8/17/2012	7:00	- 7:15	0.25	DRLOUT	48		P		TOTAL WATER = 7814 BBLS TOTAL SAND = 327925 # HSM-JSA			
	7:15	- 15:00	7.75	DRLOUT	31	I	Р		MOVE RIG & EQUIP FROM NBU 921-26BHZ, MIRU, SPOT EQUIP, PU 3 7/8" BIT, POBS, XN SN, RIH W/ 195 JTS 2 3/8" L-80 TBG OFF FLOAT TAG FILL @ 6,168", RU PWR SWIVEL, BRK CIRC PRESS TEST BOP TO 3,000 PSI LOST 0 PSI IN 15 MIN, SWIFWE.			
8/20/2012	7:00	- 7:15	0.25	DRLOUT	48		P		HSM-JSA			

				Ü	JS RO	CKIES F	REGION	
			No.	Opera	ation	Summ	nary Report	
Well: BONANZ/	A 1023-6K1CS PURPL	LE		<u> Vijarij</u>	<u> 2555,275</u>	<u>Serie Nysy</u>	Spud Date: 3/2	27/2012
Project: UTAH-U	JINTAH		Site: BO	NANZA 10	023-6K I	PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLE	ETION		Start Dat	te: 8/9/201	12			End Date: 8/20/2012
Active Datum: R Level)	RKB @5,234.00usft (ab	pove Mean S	iea	UWI: N	E/SW/0/	10/S/23/E	E/6/0/0/26/PM/S/19	15/W/0/1732/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
<u> </u>	7:15 - 13:00	5.75	DRLOUT	44	C	P		BRK CIRC,
								C/O 30' SAND TAG PLUG #1 @ 6,198', DRL HAL 8K CBP IN 6 MIN, 0 PSI INC, FCP 0 PSI, RIH TAG FILL @ 6,378'.
								C/O 30' SAND TAG PLUG #2 @ 6,408', DRL HAL 8K CBP IN 10 MIN, 800 PSI INC, FCP 700 PSI, RIH TAG FILL @ 7,205'.
								C/O 25' SAND TAG PLUG #3 @ 7,230', DRL HAL 8K CBP IN 8 MIN, 200 PSI INC, FCP 400 PSI, RIH TAG FILL @ 7,435'.
								C/O 30' SAND TAG PLUG #4 @ 7,465', DRL HAL 8K CBP IN 7 MIN, 200 PSI INC, FCP 500 PSI, RIH TAG FILL @ 7,724'.
								C/O 30' SAND TAG PLUG #5 @ 7,754', DRL HAL 8K CBP IN 9 MIN, 100 PSI INC, FCP 450 PSI, RIH TAG FILL @ 7,958'.
								C/O 35' SAND TAG PLUG #6 @ 7,993', DRL HAL 8K CBP IN 8 MIN, 100 PSI INC, FCP 500 PSI, RIH TAG FILL @ 8,166'.
								C/O 30' SAND TAG PLUG #7 @ 8,196', DRL HAL 8K CBP IN 6 MIN, O PSI INC, FCP 400 PSI, RIH TAG FILL @ 8,550' (112' BELOW BTM PERF). CIRC WELL CLN, RD PWR SWVEL, POOH LD 17 JTS ON FLOAT. LAND TBG W/ 252 JTS 2 3/8" L-80 EOT @ 7,993.53'. RD FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL POBS @ 1,600 PSI, LET BIT FALL 30 MIN, TURN OVER TO FBC, SITP 400 PSI, SICP 1,900 PSI, RDMO.
								KB-15' HANGER83' 252 JTS 2 3/8" L-80-7,975.50' POBS-2.20' EOT @ 7,993.53'
								283 JTS DEL USED 252 JTS RET 31 JTS
								TWTR=8,114 BBLS

TWR=1,857 BBLS TWLTR=6,257 BBLS

8/21/2012

Project: UTAH - UTM (feet), NAD27, Zone 12N Site: UINTAH BONANZA 1023-6K PAD

Well: BONANZA 1023-6K1CS Wellbore: BONANZA 1023-6K1CS

Section: SHL:

+N/-S 0.00

Design: BONANZA 1023-6K1CS (wp01)

North

Latitude: 39.975966 Longitude: -109.371952 GL: 5219.00

+E/-W

0.00

KB: 15' RKB + 5219' GL @ 5234.00ft (XTREME 12)

FORMATION TOP DETAILS

TVDPath MDPath 4235.00 4299.28 4835.00 4899.30 6379.00 6443.34 8553.00 8617.39 Formation WASATCH top of cylinder MESAVERDE SEGO

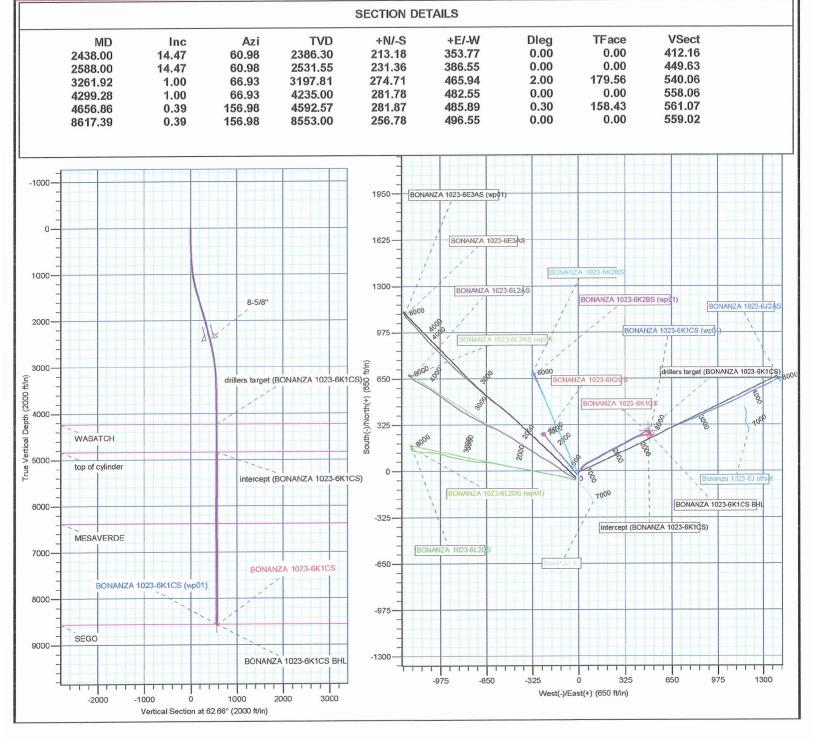
,	WELL DETAILS: BON	ANZA 1023-6K1	cs	
	Ground Level:	5219.00 Latittude	Longitude	Slot
ing .76	Easting 2096535.68	39.975966	-109.371952	GIOT

TVD	MD	Name	Size
	2447.35	8-5/8"	8-5/8



			DEGICIT I	WOLL DE IVILLO				
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
drillers target (BONANZA 1023-6K1CS)	4235.00	281.78	482.55	14521747.31	2097013.00	39.976740	-109.370230	Circle (Radius: 15.00)
intercept (BONANZA 1023-6K1CS)	4835.00	280.33	486.55	14521745.93	2097017.03	39.976736	-109.370216	Point
BONANZA 1023-6K1CS BHL	8553.00	256.78	496.55	14521722.56	2097027.46	39.976671	-109.370180	Circle (Radius: 25.00)

DESIGN TARGET DETAILS



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N UINTAH_BONANZA 1023-6K PAD BONANZA 1023-6K1CS

BONANZA 1023-6K1CS

Design: BONANZA 1023-6K1CS

Standard Survey Report

04 September, 2012

Survey Report

Company:

US ROCKIES REGION PLANNING

Project

UTAH - UTM (feet), NAD27, Zone 12N

Site:

UINTAH_BONANZA 1023-6K PAD

Well:

BONANZA 1023-6K1CS

Wellbore: Design:

BONANZA 1023-6K1CS BONANZA 1023-6K1CS

Local Co-ordinate Reference:

Well BONANZA 1023-6K1CS

TVD Reference:

MD Reference:

Database:

15' RKB + 5219' GL @ 5234.00ft (XTREME 12)

15' RKB + 5219' GL @ 5234.00ft (XTREME 12)

North Reference:

Survey Calculation Method:

edmp

Project

UTAH - UTM (feet), NAD27, Zone 12N

Map System: Geo Datum:

Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS)

Map Zone:

Zone 12N (114 W to 108 W)

System Datum:

Mean Sea Level

Minimum Curvature

Site

UINTAH_BONANZA 1023-6K PAD

Site Position:

Lat/Long

+N/-S

+E/-W

Northing: Easting:

14,521,392.52 usft

Latitude:

39.975791

0.00 ft

2,096,508.54 usft

Longitude:

-109.372053 1.05°

Position Uncertainty:

Slot Radius:

13-3/16 "

Grid Convergence:

Well

BONANZA 1023-6K1CS

Well Position

0.00 ft 0.00 ft Northing: Easting:

14,521,456.77 usft 2,096,535.68 usft

Latitude: Longitude:

39.975966 -109.371952

Position Uncertainty

0.00 ft

Wellhead Elevation:

ft

Ground Level:

5,219.00 ft

Wellbore

BONANZA 1023-6K1CS

IGRF2010

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength

(nT)

4/12/2012

10.91

65.85

52,249

Design

BONANZA 1023-6K1CS

Audit Notes:

Version:

1.0

Phase:

ACTUAL

Tie On Depth:

6.00

Vertical Section:

Depth From (TVD)

6.00

+N/-S

+E/-W

Direction

(ft)

(ft)

0.00

(ft) 0.00 (°)

64,70

Survey Program

7/5/2012 Date

From (ft)

To (ft)

Survey (Wellbore)

Tool Name

Description

236.00 2,533.00

2,438.00 Survey #1 (BONANZA 1023-6K1CS) 8,640.00 Survey #2 (BONANZA 1023-6K1CS) MWD MWD MWD - STANDARD MWD - STANDARD

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
6.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00
236.00	0.48	336.65	236.00	0.88	-0.38	0.03	0.21	0.21	0.00
328.00	0.72	140.92	328.00	0.79	-0.17	0.18	1.29	0.26	178.55
417.00	2.20	137.60	416.96	-0.91	1.33	0.82	1.66	1.66	-3.73
512.00	2.19	87.82	511.90	-2.18	4.38	3.02	1.94	-0.01	-52.40
605.00	3.43	52.58	604.80	-0.43	8.36	7.38	2.23	1.33	-37.89
700.00	4.57	31.49	699,57	4.53	12.60	13,33	1.94	1.20	-22.20
794.00	6.33	19.80	793.14	12.60	16.31	20.13	2.20	1.87	-12.44
888.00	7.57	31.60	886.45	22.75	21.31	28.99	2.01	1.32	12.55
981.00	8.44	45.90	978.56	32.72	29,42	40.58	2.33	0.94	15.38

Survey Report

Company:

US ROCKIES REGION PLANNING

Project:

UTAH - UTM (feet), NAD27, Zone 12N

Site: Well: UINTAH_BONANZA 1023-6K PAD BONANZA 1023-6K1CS

Wellbore: Design:

BONANZA 1023-6K1CS BONANZA 1023-6K1CS

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well BONANZA 1023-6K1CS

15' RKB + 5219' GL @ 5234.00ft (XTREME 12) 15' RKB + 5219' GL @ 5234.00ft (XTREME 12)

Minimum Curvature

edmp

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	Azmuti (°)	(ft)	(ft)	(ft)	(ft)	(°/100usft)	(°/100usft)	(°/100usft)
			tistasi ti dalam si	n Hilletik et 1844.					시장에 가게 되는 학생 학
1,075.00	10.09	52.66	1,071.33	42.51	40.92	55.17	2.10	1.76	7.19
1,167.00	11.61	58.03	1,161.68	52.30	55.19	72.24	1.98	1.65	5.84
1,261.00	13.72	61.55	1,253.39	62.62	73.01	92.77	2.39	2.24	3.74
1,355.00	16.35	61.96	1,344.17	74.16	94.50	117.12	2.80	2.80	0.44
1,451.00	17.23	62.78	1,436.07	87.01	119.07	144.83	0,95	0.92	0.85
1,545.00	16.37	60.39	1,526.06	99.93	142.96	171.95	1.17	-0.91	-2.54
1,641.00	16.71	61,22	1,618.09	113.25	166.82	199.22	0.43	0.35	0.86
1,736.00	17.18	60.55	1,708.97	126.73	191.01	226.84	0.54	0.49	-0.71
1,832.00	15.21	61.64	1,801.15	139,68	214.44	253.56	2.08	-2.05	1.14
1,925.00	14.77	62.87	1,890.99	150.88	235.72	277.59	0.58	-0.47	1,32
0.000.00	15 20	62.40	1 000 70	162.00	257 72	202.22	0.58	0.56	0.64
2,020.00	15.30	63.48	1,982.73	162.00 173.25	257.72	302.23		0.56	
2,114.00	15.30	62.60	2,073.40	173.25	279.83	327.02	0,25	0.00	-0.94 2.24
2,208.00	15.65	60.49	2,164.00	185.20	301.87	352.06	0.71	0.37	-2.24 2.72
2,303.00	14,67	63.07	2,255.69	196.96	323.75	376.87	1.25	-1.03	2.72
2,398.00	14.68	60.79	2,347.59	208,28	344.98	400.90	0.61	0.01	-2.40
2,438.00	14.47	60.98	2,386.30	213.18	353.77	410.94	0.54	-0.53	0.48
FIRST MWD	SURVEY								
2,533.00	13.50	58.69	2,478.49	224.70	373.63	433.82	1.18	-1.02	-2.41
2,624.00	11.94	67.41	2,567.26	233.84	391.40	453.78	2.71	-1.71	9.58
2,715.00	10.06	73.35	2,656.59	239.73	407.70	471.05	2.41	-2.07	6.53
2,806.00	9.29	75.85	2,746.29	243.80	422.44	486,11	0.96	-0,85	2,75
2,896.00	9.31	78.44	2,835.11	247.04	436.62	500.31	0.47	0.02	2.88
2,987.00	8.06	75.69	2,925.07	250.09	450.01	513.72	1.45	-1.37	-3.02
3,078.00	7.44	76.69	3,015.23	253.02	461.93	525.75	0.70	-0.68	1.10
3,169.00	5.81	86.94	3,105.63	254.63	472.26	535.78	2.21	-1.79	11.26
3,259.00	5.75	94.69	3,195.17	254.50	481.30	543.90	0.87	-0.07	8.61
3,350.00	5.63	99.57	3,285.72	253.39	490,25	551.51	0.55	-0.13	5.36
3,441.00	3.69	99.94	3,376,42	252.14	497.53	557.56	2.13	-2.13	0.41
3,531.00	3.13	106.32	3,466.26	250.95	502.74	561.77	0.75	-0.62	7.09
3,622.00	2.44	126.82	3,557.15	249.09	506,68	564.53	1.32	-0.76	22,53
3,713.00	2.50	138.69	3,648.07	246.44	509.54	565.98	0.56	0.07	13.04
3,803.00	1.56	160.19	3,738.01	243.81	511.25	566.41	1.33	-1.04	23.89
3,894.00	1.13	161.07	3,828.99	241,80	511.96	566.19	0.47	-0.47	0.97
3,985.00	0.38	159.44	3,919.98	240.67	512.36	566.07	0.82	-0.82	-1.79
4,076.00	0.30	354.44	4,010,98	240.53	512.45	566.09	0.62	-0.21	-181.32
4,076.00	0.19	222.82	4,100.98	240.25	512.43	565.59	0.99	0.62	-146.24
ŕ									
4,257.00	0.81	242.94	4,191.97	239.52	511.06 510.07	564.40	0.31	0.07	22.11
4,348.00	0.38	313.94	4,282.96	239.44	510.27	563,65	0.85	-0.47	78.02
4,439.00	1.25	345.94	4,373.95	240.61	509.81	563.74	1.04	0.96	35.16
4,529.00	2.44	345.19	4,463.90	243,41	509.08	564.28	1.32	1.32	-0.83
4,620.00	2.88	341.44	4,554.81	247.45	507.86	564.90	0.52	0.48	-4.12
4,711.00	2.63	336,32	4,645.70	251.53	506,29	565.22	0.39	-0.27	-5.63
4,802.00	2.56	337.07	4,736.61	255.32	504.66	565.37	0.09	-0.08	0.82

Survey Report

Company:

US ROCKIES REGION PLANNING

Project:

UTAH - UTM (feet), NAD27, Zone 12N

Site: Well: UINTAH_BONANZA 1023-6K PAD

Wellbore:

BONANZA 1023-6K1CS BONANZA 1023-6K1CS Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well BONANZA 1023-6K1CS

15' RKB + 5219' GL @ 5234.00ft (XTREME 12)

15' RKB + 5219' GL @ 5234.00ft (XTREME 12)

Minimum Curvature

	NANZA 1023-6K NANZA 1023-6K			Database			edmp		
urvey			and American	one i di e Mid Giornalia				rakura da kulo. Hari angga Alimuni	Jan 17 Jan 18
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(°/100usft)	(°/100usft)	(°/100usft)
	(°)	(°)		119			(Basil Brakeler		
4,892.00	2.50	336.94	4,826.52	258.97	503.11	565.53	0.07	-0.07	-0.14
4,983.00	2.69	335.44	4,917.43	262.74	501,44	565.63	0.22	0.21	-1.65
5,074.00	2.31	334.19	5,008.34	266.34	499.76	565,64	0.42	-0.42	-1.37
5,165.00	2.00	327.19	5,099.28	269.32	498.10	565.42	0.45	-0.34	<i>-</i> 7.69
5,255.00	1.94	321.46	5,189.22	271.83	496.30	564.86	0.23	-0.07	-6.37
5,346.00	1.75	316.32	5,280.18	274.04	494.38	564.07	0.28	-0.21	-5.65
5,437.00	1.06	301.94	5,371.15	275.49	492.71	563.18	0.85	-0.76	-15.80
5,528.00	0.75	282.32	5,462.14	276.06	491.41	562.25	0.48	-0.34	-21.56
5,619.00	0.44	210.82	5,553.13	275.89	490.65	561.49	0.81	-0.34	-78.57
5,709.00	0.81	171.82	5,643.13	274.97	490.56	561.02	0.60	0.41	-43.33
5,800.00	1.31	163.82	5,734.11	273.33	490.94	560.66	0.57	0.55	-8.79
5,891.00	1.63	158.44	5,825.08	271.13	491.71	560.41	0.38	0.35	-5.91
5,981.00	1.94	155.69	5,915.04	268.55	492.81	560.30	0.36	0.34	-3.06
0.070.00	0.40	450.07	6,005.98	265.59	494.23	560,33	0.29	0.27	-2.88
6,072.00	2.19	153.07					0.29		
6,163.00	2.38	154.44	6,096.91	262.34	495.83	560.38		0.21	1.51
6,254.00	1.75	170.07	6,187.85	259.27	496.89	560.02	0.92	-0.69	17.18
6,345.00	0.75	180.69	6,278.82	257.30	497.12	559.40	1.12	-1.10	11.67
6,436.00	0.50	286.07	6,369.82	256.82	496.73	558.84	1.11	-0.27	115.80
6,526.00	1.38	334,07	6,459.81	257.90	495.88	558.53	1.23	0.98	53,33
6,616.00	1.69	348.44	6,549.78	260.17	495.14	558.83	0.55	0.34	15.97
6,708.00	1.38	354.82	6,641.74	262,61	494.77	559.54	0.38	-0.34	6.93
6,799.00	0.81	347.19	6,732.73	264.33	494.53	560.05	0.65	-0.63	-8.38
6,889.00	0.37	42.08	6,822.72	265.16	494.58	560.46	0.74	-0.49	60.99
0,009.00	0.37	42.00	0,022.72	200.10	434.00	300,40	0.74	-0.40	00,00
6,980.00	0.69	91.94	6,913.72	265.36	495.32	561,22	0.59	0.35	54.79
7,071.00	1.56	113.32	7,004.70	264.85	497.01	562.52	1.05	0.96	23.49
7,162.00	2.38	119.94	7,095.65	263.42	499.78	564.42	0.93	0.90	7.27
7,252.00	2.13	128.32	7,185.58	261.45	502.72	566.23	0.46	-0.28	9.31
7,343.00	1.88	142.57	7,276.52	259,21	504.95	567.29	0.61	-0.27	15.66
7,434.00	1.81	151.94	7,367.48	256.76	506.53	567.68	0.34	-0.08	10.30
7,525.00	2.06	159.57	7,458.42	253.96	507.78	567.61	0.39	0.27	8.38
7,616.00	1.56	157.44	7,549.38	251.28	508.83	567.41	0.55	-0.55	-2.34
7,706.00	0.69	166.94	7,639.36	249.62	509.42	567.23	0.99	-0.97	10.56
7,797.00	0.44	135.07	7,730.36	248.84	509.79	567.24	0.43	-0.27	-35.02
7,888.00	0.31	166.44	7,821.35	248.36	510.09	567.30	0.26	-0.14	34.47
7,979.00	0.31	325.19	7,912.35	248,20	510.09	567,30	0.48	-0.20	174.45
•			8,002.35	248.20 248.44	509,67	566.95	0.48	0.41	-36.52
8,069.00	0.50	292.32							
8,160.00	0.56	266.07	8,093.35	248.56	508.86	566.27	0.27	0.07	-28.85
8,251.00	0.44	261.57	8,184.34	248.47	508.07	565.52	0.14	-0.13	-4.95
8,342.00	0.50	183.19	8,275.34	248.03	507.70	565.00	0.65	0.07	-86.13
8,432.00	1.13	162.44	8,365.33	246.79	507.95	564.69	0.76	0.70	-23.06
8,523.00	1.63	139.07	8,456.31	244.95	509.07	564.92	0.82	0.55	-25.68
8,590.00	2.25	131.23	8,523.27	243.37	510.68	565.70	1.00	0.93	-11.70
		101.20	0,020,27	240.07	510.00	555.15	,,50	0.00	, , 0
LAST MWD \$ 8,640.00	2.25	131.23	8,573.23	242.07	512.16	566.48	0.00	0.00	0.00

Survey Report

Company:

US ROCKIES REGION PLANNING

Project:

UTAH - UTM (feet), NAD27, Zone 12N

Site: Well: UINTAH BONANZA 1023-6K PAD BONANZA 1023-6K1CS

Wellbore: Design:

BONANZA 1023-6K1CS BONANZA 1023-6K1CS Local Co-ordinate Reference:

Well BONANZA 1023-6K1CS

15' RKB + 5219' GL @ 5234.00ft (XTREME 12)

15' RKB + 5219' GL @ 5234.00ft (XTREME 12)

Survey Calculation Method:

Minimum Curvature

Database:

TVD Reference:

MD Reference:

North Reference:

edmp

Survey

Measured Depth Inclination (ft) (°)

Vertical Depth Azimuth (ft) (°)

+N/-S (ft)

Vertical Section +E/-W (ft) (ft)

Dogleg Rate (°/100usft)

Build Rate (°/100usft)

Turn Rate (°/100usft)

PROJECTION TO TD

Design Annotations	Mari 69-o il arti sa			ing the state of t
Measured	Vertical	Local Coon	dinates	200 전 100 전 1 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1) : 1 (1)
Depth	Depth	+N/-S	+E/-W	
(n)	(ft)	(ft)	(ft)	Comment
2,438.00	2,386.30	213.18	353.77	FIRST MWD SURVEY
8,590.00	8,523.27	243.37	510.68	LAST MWD SURVEY
8,640.00	8,573.23	242.07	512.16	PROJECTION TO TD

Checked By:	Approved By:	Date:	1

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

	El	NTITY ACTIO	N FORM	
Operator:	KERR McGEE OIL & GAS ONSH	ORE LP	_ Operator Account Number:	N 2995
Address:	P.O. Box 173779			
	city DENVER		-	
	state CO zi	p 80217	Phone Number:	(720) 929-6304

Wall 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County
Various	Ponderosa Wells						UINTAH
Action Code	Current Entity Number	New Entity Number	S	pud Da	te		y Assignment fective Date
	18421	18519				5/1	(1001)
Comments: Move	the attached wells into	the Ponderosa unit. A	ll wells ar	e WSM\	/D.	11/10	0/2012

Well 2

API Number	Well I	Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	s	pud Da	te		y Assignment fective Date
Comments:							

Well 3

API Number	Well I	Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	S	pud Da	te		y Assignment fective Date
Comments:				·			

ACTION CODES:	A	CT	ION	CO	DES:
---------------	---	----	-----	----	------

- A Establish new entity for new well (single well only)
- **B** Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new ENEIVED
- E Other (Explain in 'comments' section)

NOV 0 8 2012

JAIME	SCH	HAR	NO'	V	/Sł	(E
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Name (Please Print)	a vacuable.
Signature	
REGULATORY ANALYST	11/8/2012
Title	Date

Well Name	Quarter/Quarter	Section	Township	Rang	e APUI Numbe	er County	New Entity Number	Formation
BONANZA 1023-6J2AS	NESW	6	108	23E			18519	WSMVD
BONANZA 1023-6K1CS	NESW	6	108	23E			18519	WSMVD
BONANZA 1023-6K2BS	NESW	6	108	23E			18519	WSMVD
BONANZA 1023-6K2CS	NESW	6	108	23E	4304751468		18519	WSMVD
BONANZA 1023-6L2AS	NESW	6	108	23E	4304751469		18519	
BONANZA 1023-6L2DS	NESW	6	108	23E	4304751470		18519	WSMVD
BONANZA 1023-601BS	SWSE	6	108	23E	4304751473		18519	WSMVD
BONANZA 1023-602DS	SWSE	6	108	23E	4304751474		18519	WSMVD
BONANZA 1023-603AS	SWSE	6	108	23E	4304751475		18519	WSMVD
BONANZA 1023-6P2BS	SWSE	6	108	23E	4304751476		18519	WSMVD
BONANZA 1023-6P3CS	SWSE	6	108	23E	4304751478			WSMVD
BONANZA 1023-5J2DS	NESW	5	105	23E	4304752063		18519	WSMVD
BONANZA 1023-5K1BS	NESW	5	108	23E	4304752064		18519	WSMVD
BONANZA 1023-5K1CS	NESW	5	108	23E	4304752065		18519	WSMVD
BONANZA 1023-5K3DS	NESW	5	108	23E			18519	WSMVD
BONANZA 1023-5L1DS	NESW	5	105	23E	4304752066	Uintah	18519	WSMVD
BONANZA 1023-5L4AS	NESW	5	103		4304752067	Uintah	18519	WSMVD
BONANZA 1023-5L4DS	NESW	5		23E	4304752068	Uintah	18519	WSMVD
BONANZA 1023-502AS	NESW	5	108	23E	4304752069	Uintah	18519	WSMVD
BONANZA 1023-5E3BS	SWNW		108	23E	4304752070	Uintah	18519	WSMVD
BONANZA 1023-5E3CS		5	108	23E	4304752071	Uintah	18519	WSMVD
BONANZA 1023-5L1AS	SWNW	5	108	23E	4304752072	Uintah	18519	WSMVD
BONANZA 1023-5L1AS	SWNW	5	108	23E	4304752073	Uintah	18519	WSMVD
	SWNW	5	108	23E	4304752074	Uintah	18519	WSMVD
BONANZA 1023-5M1AS	SWSW	5	108	23E	4304752075	Uintah	18519	WSMVD
BONANZA 1023-5M1CS	SWSW	5	108	23E	4304752076	Uintah	18519	WSMVD
BONANZA 1023-5M3BS	SWSW	5	10\$	23E	4304752077	Uintah	18519	WSMVD
BONANZA 1023-5M3CS	SWSW	5	108	23E	4304752078	Uintah	18519	WSMVD
BONANZA 1023-5N3CS	SWSW	5	108	23E	4304752079	Uintah	18519	WSMVD
BONANZA 1023-504BS	SESE	5	10S	23E	4304752082	Uintah	18519	WSMVD
BONANZA 1023-5P1AS	SESE	5	108	23E	4304752083	Uintah	18519	WSMVD
BONANZA 1023-5P1CS	SESE	5	108	23E	4304752084	Uintah	18519	WSMVD
BONANZA 1023-5P4CS	SESE	5	108	23E	4304752085	Uintah	18519	WSMVD
BONANZA 1023-5C4AS	NENW	5	108	23E	4304752089	Uintah	18519	WSMVD
BONANZA 1023-5F2CS	NENW	5	10\$	23E	4304752090	Uintah	18519	WSMVD
BONANZA 1023-5F3AS	NENW	5	108	23E	4304752091	Uintah	18519	WSMVD
BONANZA 1023-5C2CS	NWNW	5	108	23E	4304752092	Uintah	18519	WSMVD
BONANZA 1023-5D2DS	NWNW	5	108	23E	4304752093	Uintah	18519	WSMVD
BONANZA 1023-5D3AS	NWNW	5	10S	23E	4304752094	Uintah	18519	WSMVD
BONANZA 1023-5E2AS	NWNW	5	108	23E	4304752095	Uintah	18519	WSMVD
BONANZA 1023-6A1CS	NWNW	5	108	23E	4304752096	Uintah	18519	WSMVD
BONANZA 1023-613AS	SWNW	5	10S	23E	4304752387	Uintah	18519	WSMVD
BONANZA 11-2	SWNW	11	108	23E	4304734773	Uintah	18519	
BONANZA 1023-6E4AS	SENW	6	108	23E	4304751453	Uintah		WSMVD
BONANZA 1023-6F1AS	SENW	6	105	23E	4304751454	Uintah	18519	WSMVD
BONANZA 1023-6F1CS	SENW	6	105	23E			18519	WSMVD
BONANZA 1023-6F4CS	SENW	6	108	23E	4304751455	Uintah	18519	WSMVD
BONANZA 1023-6G2AS	SENW	6	105		4304751456	Uintah	18519	WSMVD
BONANZA 1023-6G4CS	SENW	6		23E	4304751457	Uintah	18519	WSMVD
BONANZA 1023-6A3DS	SENE		108	23E	4304751458	Uintah	18519	WSMVD
BONANZA 1023-6G1DS	SENE	6		23E	4304751459	Uintah	18519	WSMVD
BONANZA 1023-6H1BS		6		23E	4304751460	Uintah	18519	WSMVD
	SENE	6		23E	4304751461	Uintah	18519	WSMVD
BONANZA 1023-6H2CS	SENE	6		23E	4304751462	Uintah	18519	WSMVD
BONANZA 1023-612AS	SENE	6		23E	4304751463	Uintah	18519	WSMVD
BONANZA 1023-613DS	SWSE	6		23E	4304751471	Uintah	18519	WSMVD
BONANZA 1023-6J4AS	SWSE	6	10S	23E	4304751472	Uintah	18519	WSMVD
BONANZA 1023-6P3AS	SWSE	6	10S	23E	4304751477	Uintah	18519	WSMVD